

Dr. D. Y. Patil

College of Nursing Pune | India



DPU

Dr. D. Y. PATIL VIDYAPEETH, PUNE
(Deemed to be University)

(Accredited (3rd Cycle) by NAAC with a CGPA of 3.64 on four point scale at 'A++' Grade)
(Declared as **Category - I University** by UGC Under Graded Autonomy Regulations, 2018)
(An ISO 9001:2015, ISO 14001:2015 Certified University)

Dr. D. Y. Patil College of Nursing



We are **Dr. D. Y. Patil College of Nursing**, where we build the future of aspiring nursing students with our comprehensive curriculum, we help students to develop the skills, knowledge, and compassion to become exceptional nurses so that they can achieve a rewarding profession with opening doors to endless opportunities for growth.

B.Sc. Nursing | P. B. B.Sc. Nursing | M.Sc. Nursing | NPCC



Start your transformative journey here

Immerse yourself in our world-class facilities, where knowledge flourishes, skills thrive, and the art of compassionate care is nurtured. Experience the power of exceptional infrastructure as you embark on your path towards a successful nursing career.

B. Sc. NURSING

Empowering You through Dilemmas, We've Got Your Back

- + How can I stay up-to-date with the latest advancements and research in the nursing field ?
- + What strategies can I employ to successfully transition from a student nurse to a registered nurse upon graduation ?
- + How can I overcome the challenges of working in diverse and multicultural healthcare settings as a B.Sc. Nursing student ?
- + How can I balance my academic workload with clinical placements and practical training ?
- + Should I focus on gaining work experience immediately after graduation or pursue higher education in nursing ?
- + What steps can I take to enhance my clinical skills and competencies during my B.Sc. Nursing program ?
- + How can I effectively manage stress and maintain work-life balance while pursuing my B.Sc. in Nursing?
- + What are the potential challenges and ethical dilemmas I may encounter as a nurse in the healthcare field ?
- + Should I consider joining professional nursing organizations or associations during my B.Sc. Nursing program, and if so, which ones are most beneficial ?
- + What are the career prospects and opportunities available for B.Sc. Nursing graduates ?



NAVIGATING YOUR DILEMMAS WITH EXPERTISE

- Should I pursue further specialization after completing my P.B. B.Sc. Nursing degree ?
- How do I balance my studies and practical training during the P.B. B.Sc. Nursing program ?
- What career opportunities are available for P.B. B.Sc. Nursing graduates and how do I choose the right path for myself ?
- Should I prioritize gaining work experience or pursuing higher education immediately after completing my P.B. B.Sc. Nursing degree ?
- What steps can I take to enhance my clinical skills and practical knowledge during my P.B. B.Sc. Nursing program ?
- How do I manage the financial burden associated with pursuing a P.B. B.Sc. Nursing degree ?
- Should I consider relocating for better career prospects as a P.B. B.Sc. Nursing graduate ?
- How can I effectively balance my personal life and academic responsibilities during my P.B. B.Sc. Nursing program ?
- What challenges and opportunities might arise in the transition from being a registered nurse to a P.B. B.Sc. Nursing student ?
- What are the potential benefits and drawbacks of specializing in a specific nursing field versus maintaining a generalist approach after completing the P.B. B.Sc. Nursing program ?

TURNING DILEMMAS INTO OPPORTUNITIES, TOGETHER

- ++ How can I develop strong networking connections and professional relationships within the nursing field to enhance my career prospects?"
- ++ What is the best specialization or area of focus to pursue within M. Sc. Nursing ?
- ++ Should I pursue a career in research or clinical practice after completing my M. Sc. Nursing ?
- ++ How can I balance my academic responsibilities with personal commitments and clinical placements during my M. Sc. Nursing program ?
- ++ What steps should I take to ensure career advancement and professional growth after obtaining my M. Sc. Nursing degree ?
- ++ What are the potential challenges and opportunities in the job market for M.Sc. Nursing graduates ?
- ++ Should I consider pursuing further education, such as a Ph.D. or specialized certifications, to enhance my career prospects ?
- ++ What are the potential benefits and drawbacks of pursuing a career in academia or teaching within the nursing field after completing my M.Sc. Nursing?"
- ++ How can I stay updated with the latest advancements and research in the nursing field while completing my M.Sc. Nursing program ?
- ++ What strategies can I implement to effectively manage and cope with the demanding workload and academic expectations of an M.Sc. Nursing program ?

NPCC NURSING

Your Dilemmas, Our Expertise: A Winning Combination

- + How can I overcome challenges and obstacles I may face during my clinical experiences as an NPCC nursing student ?
- + What should I prioritize, my academic studies or my clinical practice as an NPCC nursing student ?
- + How can I balance my coursework, clinical rotations, and personal life as an NPCC nursing student ?
- + Should I specialize in a specific area of nursing or keep my options open as an NPCC nursing student ?
- + How can I effectively manage the stress and demands of the nursing program at NPCC ?
- + What steps can I take to ensure a smooth transition from NPCC nursing student to a professional nurse ?
- + What career opportunities and pathways are available to me as an NPCC nursing student?
- + How can I build a strong network and connections within the nursing community as an NPCC nursing student ?
- + Should I pursue additional certifications or advanced degrees while studying at NPCC to enhance my nursing career prospects ?
- + What strategies can I employ to stay motivated and focused throughout my journey as an NPCC nursing student ?







Hold onto your belief in the
POWER OF EMPATHY,
for it will guide you through the
Challenges and Triumphs of this noble
PROFESSION OF NURSING!



**“Nurses are the heart of healthcare,
the compassionate presence that makes
a difference in the lives of patients.”
– Donna Wilk Cardillo**

Various programs offered by Dr. D. Y. Patil College of Nursing, Pune

Bachelors of Science (B.Sc.) Nursing

B.Sc. Nursing programs emphasize critical thinking and problem-solving skills. Nurses with a B.Sc. degree are trained to analyze complex situations, make sound clinical judgments, and provide appropriate interventions. They develop the ability to assess patient conditions, identify potential risks, and respond effectively in emergency situations. Holding a B.Sc. Nursing as a foundation

Nursing degree opens doors to various career opportunities and pathways. It can serve for pursuing higher education, such as Master's and Doctoral degrees, enabling nurses to specialize in advanced practice areas, teaching, research or leadership positions.

P. B. B.Sc. Nursing

The P. B. B.Sc. Nursing course equips registered nurses with additional knowledge, skills, and competencies required for specialized areas of nursing practice. The course curriculum of P. B. B.Sc. Nursing emphasizes advanced theoretical knowledge and practical skills development. It equips nurses with a deeper understanding of nursing theories, research methodologies, healthcare management, and evidence-based practice.

It allows to take on advanced roles and responsibilities in healthcare settings, such as nurse educators, nurse administrators, nurse managers, clinical specialists or nurse practitioners.



**“To do what nobody else will do,
a way that nobody else can do, in spite of all
we go through: that is to be a nurse.”**

- Rawsy Williams

Masters of Science (M.Sc.) Nursing

The M.Sc Nursing degree equips nurses with advanced clinical skills, knowledge, and expertise in specialized areas of nursing. It allows nurses to deepen their understanding and proficiency in a particular field, such as pediatrics, mental health, critical care or gerontology. This expertise enables nurses to provide specialized and evidence-based care to patients, improving health outcomes.

An M.Sc Nursing degree prepares nurses for roles in nursing education. Graduates can pursue careers as nurse educators, clinical instructors or academic faculty members.

Nurse Practitioner Critical Care (N.P.C.C.)

The program prepares nurse practitioners to manage complex, acutely ill patients in critical care settings. They learn to assess and diagnose patients, develop treatment and plans, monitor patient progress and make critical decisions to optimize patient outcomes. This expertise is essential in delivering high-quality care and improving patient safety in critical care units.

The advanced education and training received in this program enhance the nurse practitioner's ability to deliver comprehensive, evidence-based care to critically ill patients. Nurse practitioners can provide timely interventions, closely monitor patients and make informed decisions that positively impact patient recovery and well-being.



**“Nurses dispense comfort,
compassion, and caring
without even a prescription.”
- Val Sainsbury**

Critical Care Nursing

Critical Care Nursing is a specialized field that requires specific knowledge and skills to care for patients in critical condition. A short course in this area can provide nurses with a focused and intensive training program to enhance their competencies in critical care practices. Nurses who have received specialized training in critical care can effectively monitor patients, identify early signs of deterioration and provide timely interventions. Completing a short course in Critical Care Nursing can enhance a nurse's marketability and increase their chances of securing employment in the specialized areas such as intensive care units (ICUs), cardiac care units (CCUs) and emergency departments.

Ph. D. Nursing

Doctoral-level nurses engage in rigorous research that contributes to the advancement of nursing science, theory and practice. By conducting original research, they expand the evidence base for nursing interventions, improve patient outcomes and enhance the overall quality of healthcare.

Doctoral-prepared nurses play a vital role in educating the next generation of nurses. By teaching and mentoring aspiring nurses, they contribute to the development of a skilled and knowledgeable nursing workforce. Through their expertise research and collaboration with policymakers, they contribute to shaping healthcare systems, regulations and policies that promote equity, access and quality of care.



A STRONG
VISION
Ignites **PURPOSE**

A CLEAR
MISSION
People's
PROGRESS



VISION

To Excel Nursing care in Education and Service through Research

MISSION

- + To educate student nurses with the highest academic standards, to become future health care leaders
- + To be internationally recognized centre of excellence for both research & education.
- + To shape the future of individuals to build a healthy nation

ABOUT

DR. D. Y. PATIL VIDYAPEETH, PUNE

Dr. D. Y. Patil Vidyapeeth, located in Pimpri, Pune, was established in 2003. The city of Pune is renowned for its rich cultural, educational, and political history. Often referred to as the "Queen of the Deccan," Pune was the cultural capital of the Marathas. Situated at an elevation of 575 meters on the picturesque Deccan plateau in the Sahyadri ranges, the city is surrounded by lush hills and pristine lakes. With its pleasant climate and scenic beauty, Pune has become a favored destination for retirees, earning it the nickname "Pensioner's Paradise."

Pune boasts a remarkable legacy in the field of education, earning it the moniker "Oxford of the East." It is home to a vast number of colleges and universities, surpassing any other city in India in terms of educational institutions. The city attracts approximately 25,000 international students from 99 countries, who come to pursue their education in Pune.

The educational landscape of Pune is adorned with esteemed institutions and research centers, including **Savitribai Phule Pune University, Deccan College, College of Military Engineering (CME), Armed Forces Medical College (AFMC), Bhandarkar Oriental Research Institute, National Chemical Laboratory (NCL), National Defense Academy (NDA), National Center for Cell Science (NCCS), National Institute of Virology (NIV), National AIDS Research Institute (NARI)**, and the Information Technology park at Hinjewadi.

Dr. D. Y. Patil Vidyapeeth, Pune is conveniently situated just 13 km away from the Pune Railway Station and the Airport, making it easily accessible. The city enjoys excellent connectivity to Mumbai and other parts of the country through rail, air, and road networks. Pune is also home to an international airport, further facilitating travel and accessibility.

Salient Features		
Altitude	575 m	
Area	816 sq. km.	
Population	10.46 Million (approx)	
Language	Marathi, English, Hindi	
Climate	Max. Temp (C)	Min. Temp (C)
Summer	40	20
Winter	25	8
Rain	Moderate 75 cm. p.a.	

About Vidyapeeth

Establishment



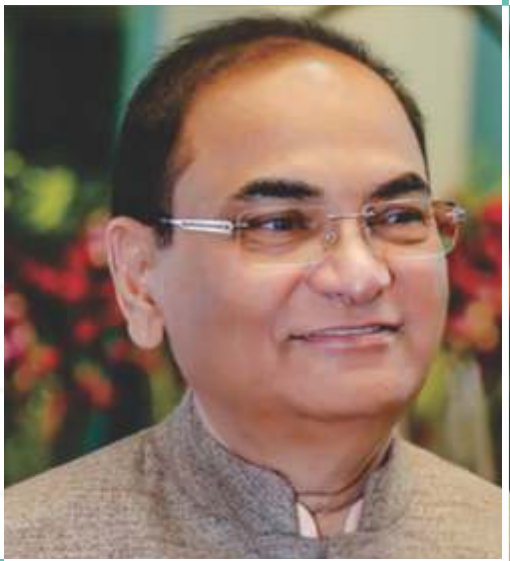
Dr. D. Y. Patil Vidyapeeth, Pune was granted **Deemed-to-be University status in 2003** by the **Government of India, Ministry of Human Resource Development**, based on the recommendation of the University Grants Commission. This recognition included Dr. D. Y. Patil Medical College, Hospital and Research Centre in Pimpri, Pune. Since its establishment, the university has expanded significantly and **now comprises a total of 13 professional institutions** offering programs in various fields such as Medicine, Dentistry, Nursing, Physiotherapy, Optometry, Biotechnology, Management, Ayurved, Homeopathy, Design, Allied Health Sciences, Liberal Arts, Science & Technology, and Online Learning. The university is known for its modern infrastructure and dedicated faculty, and all the programs offered by its constituent units are duly recognized by the respective councils and regulatory bodies.

Accreditation / Rankings / Recognitions:

- Achieved the Highest Benchmark in Academic Excellence with a CGPA of 3.64 on four-point scale at 'A++' Grade by NAAC.
- Dr. D. Y. Patil Vidyapeeth, Pune is Included in the list of Institutions Deemed to be Universities under section 12B of the UGC Act, 1956 by UGC.
- The Vidyapeeth is declared as Category - I University by UGC Under Graded Autonomy Regulations, 2018.
- In NIRF Rankings 2023 conducted by Ministry of Education, New Delhi, the Vidyapeeth has ranked 46th in University Category, 3rd in Dental Category and 15th in Medical Category.
- The Vidyapeeth is an ISO 9001:2015, ISO 14001:2015 and Green Education Campus Certified University.
- Under Swachh Campus Ranking 2019 of Higher Educational Institutions, conducted by Ministry of Human Resource Development (MHRD), Government of India, the university has achieved 9th rank amongst the Cleanest Higher Educational Institutions in the Country in the category 'Residential Universities – UGC'.
- DPU has received 'One District One Champion 2021-22' Award for Swachhta Action plan conducted by MGNCRE under Ministry of Education, Govt. of India.
- Recognized as “Social Entrepreneurship Swachhata & Rural Engagement Cell” (SES REC) Institution, by Mahatma Gandhi National Council of Rural Education, Department of Higher Education, Ministry of Education, Government of India in September, 2020.
- Biotechnology and Bioinformatics Institute recognized as DST-FIST(Level-I) Institute.
- Medical College has been recognized as a Regional Centre for conducting revised Basic Course Workshop exclusively for PG teachers (rBCW-PG) in stand-alone PG Institutions by National Medical the Commission, New Delhi on 11 February 2021.
- All our hospitals viz Medical, Dental, Ayurveda and Homoeopathy are NABH accredited and all laboratories are NABL accredited.
- The Regenerative Medicine Lab in the Dental College and the 'Sudhatatva Pharmacy' of Ayurveda College are FDA Approved and GMP Certified.
- The Vidyapeeth is registered with Foreign Contribution (Regulation) Act (FCRA) in 2013 & re-registered in 2018.
- The Vidyapeeth is recognized as a Scientific and Industrial Research Organization (SIRO) by Department of Scientific and Industrial Research (DSIR) since 2017.
- DPU Ethics Committee is re-registered by Drug Controller General of India (DCGI).
- DPU Unit of UNESCO Chair in Bioethics, Haifa was established in May 2015

Certificate of Accreditation





Chancellor's Message

Dear Students,

It gives me immense pleasure to interact with you through this Brochure. In today's competitive world, good education provides an opportunity to excel in different spheres of life and it is my belief that, quality education is an antidote to ignorance. Dr. D. Y. Patil Vidyapeeth, Pune offers a range of professional programmes in an environment that is conducive to the all-round development of youth.

The institute possesses state-of-the-art infrastructure, highly qualified and dedicated faculty. We ensure high quality of education relevant to the needs of society. As a result of this, the Vidyapeeth has been Accredited (3rd Cycle) by the National Assessment and Accreditation Council (NAAC) with a CGPA of 3.64 on four-point scale at 'A++' Grade. All our hospitals viz Medical, Dental, Ayurved and Homeopathy are NABH accredited and laboratories are NABL accredited. I have travelled all over the globe, visited a number of institutes imparting professional education, including Nursing Institutes, & Schools and I am happy to say that we, at the College of Nursing, have adopted excellent educational practices and teaching methodologies, which are comparable to the best available in those places. As a result, dedicated faculty and excellent facilities such as high tech lab with round the clock internet service, state-of –the-art library, most modern seminar rooms, conference facilities, comfortable and elegant class rooms well equipped with teaching aids etc. are made available. The ambience at the Institute is student-friendly and our students have always been my first priority.

I welcome you to Dr. D. Y. Patil College of Nursing and wish you best of luck for your education and career in the vastly expanding Nursing arena.

Dr. P. D. Patil
Chancellor



Pro Chancellor's Message

Dear Students,

I feel privileged to share my views with you through this brochure. Education is the most important means to a social change and important for the betterment of the society.

Our message to the students is “The best way to predict the future is to create it.” In keeping with its mission of academic excellence, Dr. D. Y. Patil Vidyapeeth, Pune, (DPU) is always continuing its inexorable developmental activities, on all fronts, in a bid to create a world class university. This is reflected by the consistent expansion of infrastructure, faculty, research contributions and national and international linkages & collaborative initiatives, signaling out globally that DPU is focused in its activities with its thrust being on developmental activities. All our hospitals viz Medical, Dental, Ayurved and Homeopathy are NABH accredited and laboratories are NABL accredited.

Visualizing an enlightened, cultured and economically vibrant India, developed through education in diverse disciplines, we at DPU always keep in mind the commitment to contribute towards the growth of our nation, the purpose of our Vidyapeeth and also our dream to make DPU a global hub for academic excellence in the field of higher education.

Dr. Bhagyashree Patil

Pro Chancellor



Vice Chancellor's Message

Dear Students,

I am extremely happy to interact with you through this brochure. Dr. D. Y. Patil Vidyapeeth has been recognized as an institution that has been delivering a very high-quality education with emphasis on interactive teaching methods and focused research in diverse fields.

DPU is known for Academic Heritage, World Class Faculty, State-of-the-art Infrastructure, International Teaching Pedagogies, Excellent Learning Environment, Dynamic Research Culture and Emphasis on Overall Personality Development. Our curriculum innovations include enhancement of integrated modules, case based & rapid cycle learning methods, inclusion of patient safety & health care quality concepts at all levels, to name a few. At our colleges, we provide opportunities for involvement in innovative research projects and life enhancing community service thriving on our campuses. We believe that complete education is what makes a student self-educated. To ensure this, greater emphasis is given on what students have learned and not necessarily what they were taught. With these commendable achievements, I believe that there is still scope for us to become the best and to reach higher levels of academic excellence. I have no doubt that we will be able to achieve these objectives with cooperation from our faculties of various institutions, which include experienced, knowledgeable and caring mentors.

The Vidyapeeth has constituted APEX Committee for preparing vision and plan of action for implementing the provisions made in NEP2020 by UGC, accordingly course curriculum is designed.

All our hospitals viz Medical, Dental, Ayurveda and Homeopathy are NABH accredited and laboratories are NABL accredited. I assure to all Parents & Students that we will continue to strive hard to provide quality education to the youth and live through the processes and systems that are of global standards.

Lastly, I congratulate you for having chosen Dr. D. Y. Patil Vidyapeeth, Pimpri, Pune to pursue and attain your future dreams and professional objectives in the area of health sciences and wish to extend my heartiest welcome on behalf of the entire Vidyapeeth fraternity.

I wish you all the best.

Dr. N. J. Pawar
Vice Chancellor



Pro-Vice Chancellor's Message

Dear Students,

Jesus Christ said, “You are the light of the world. Take pride in how far you have come and how far you can go.” Dear Students, let the beginning that you make today always inspire you to cherish and uphold the values and traditions of the nursing profession. Welcome to Dr. D. Y. Patil College of Nursing. Our College has a distinguished reputation throughout the country for the quality of its graduates. By joining our educational programs, you will be among the elite and highly respected individuals across the country and the world.

Our main vision has always been education that will leverage the powerful, professional voice of Nursing through outstanding education, clinical expertise, and research to improve health across the communities we serve. Also, to prepare professionally competent and qualified nurses to be at the forefront of new advancements in the field of health care, administrative field, and research. We believe that diversity, equity, and inclusion are necessary to achieve both academic and institutional excellence. Our efforts are to ensure that each student, staff, and faculty feel a sense of belonging and know that their contributions are valued and are an essential part of our institutional success.

I would like to take this opportunity to encourage all of you who are beginning or enriching your professional nursing career to explore the Dr. D. Y. Patil College of Nursing to its fullest and we look forward to helping you reach your career goals and becoming future healthcare leaders.

I also encourage you to peruse our website to better understand the breadth and depth of the services that we provide to our student's and our alumni.

Dr. (Mrs.) Smita Jadhav

Pro Vice Chancellor



Principal's Message

Dear Students,

I welcome all the learners who desire to choose nursing as their career to the most incredible nursing institute of the state. The objective of the College is to impart high quality education to students, so that they have in-depth practical knowledge and develop skills.

The College is internationally recognized as a center of excellence for education and research. The mission of the College is to take Dr. D. Y. Patil College of Nursing, Pune to newer heights! The College has set goal for itself to excel in Nursing Education and in Nursing Service through Evidence.

It does so by preparing and enlightening the students of this Course with the quality education that is at par with the best standards in the country. After the completion of the Course, students provide comprehensive nursing care and assume responsibilities as specialists, consultants, educators, and administrators and become future leaders in the health care sector.

The College is approved by Maharashtra Nursing Council, Mumbai & Indian Nursing Council, New Delhi. It has been Accredited (3rd Cycle) by the National Assessment and Accreditation Council (NAAC) with an 'A++' Grade. It is also an ISO 9001: 2015 and 14001:2015 Certified as also Green Education Campus.

The college is equipped with Advanced Skill and Simulation Centre, qualified faculty, and excellent educational and co-curricular facilities.

I am pleased to state that the college has an eminent reputation in the field of cultural and sports activities at the various national and state level. Our cultural performances have achieved top positions and our students have been highly appreciated and recognized in the university and inter university level competitions.

I bid you great learning ahead for a bright and wonderful future.

Regards and blessings.

Dr. (Mrs.) Khurshid Jamadar

Principal

1st Convocation | 10th April, 2010



Felicitation of Chief Guest **Shri. Sushilkumar Shinde**,
the then Union Minister of Power, Government of India



Conferring the degree of **Doctor of Science (Honoris Causa)** on
Baba Ramdevji, *Founder Patanjali Yogpeeth, Haridwar*



Conferring the degree of Doctor of Science (Honoris Causa) on
Prof. U. R. Rao
Former Chairman, Indian Space Research Organization (ISRO)

2nd Convocation | 18th March, 2011



Felicitation of Chief Guest, **Dr. A. P. J. Abdul Kalam**,
Former President of India



Conferring the degree of
Doctor of Science (Honoris Causa) on **Dr. Vijay Bhatkar**
Chairman, ETH Ltd. and former Director CDAC



Conferring the degree of
Doctor of Science (Honoris Causa) on **Dr. P. Venugopal**
*Chairman, Alchemist Medical Division and
Former Director AIIMS, New Delhi*



Conferring the degree of
Doctor of Letters (Honoris Causa) on **Advocate Ujjwal Nikam**
Special Public Prosecutor, Government of Maharashtra



Conferring the degree of
Doctor of Letters (Honoris Causa) on **Dr. Narendra Jadhav**
Member, Planning Commission, Government of India

3rd Convocation | 9th June, 2012



Felicitation of Chief Guest
Smt. Pratibha Devisingh Patil
President of India

Conferring the degree of
Doctor of Letters (Honoris Causa) on
Shri. Mohan Dharia
*Former Cabinet Minister and
Eminent Environmentalist*



Conferring the degree of
Doctor of Letters (Honoris Causa) on
Shri. Montek Singh Ahluwalia
*Deputy Chairman, Planning Commission,
Government of India*



4th Convocation | 14th April, 2013



Felicitation of Chief Guest **Shri. Sharadchandra Pawar**
*The then Union Minister of Agriculture & Food Processing Industry,
Government of India*



Conferring the degree of Doctor of Letters (Honoris Causa) on
Shri. B. M. alias Babasaheb Purandare
Eminent Historian and Play-writer



Conferring the degree of Doctor of Science (Honoris Causa) on
Dr. Krishnaswamy Kasturirangan
an Architect of India's Space Research Programme



Conferring the degree of Doctor of Science (Honoris Causa) on
Prof. M. S. Swaminathan
Eminent Agricultural Scientist

5th Convocation | 26th April, 2014



Felicitation of Chief Guest
Hon'ble Shri. Shrinivas Patil
Governor of Sikkim, India

6th Convocation | 26th June, 2015



Felicitation of Chief Guest
Hon'ble Shri. Pranab Mukherjee
President of India



Conferring the degree of Doctor of Letters (Honoris Causa) on
Shri. Sharad Pawar
Member of Parliament (Rajya Sabha)



Conferring the degree of Doctor of Science (Honoris Causa) on
Shri. Abhijit Mukherjee
Member of Parliament (Lok Sabha)



Conferring the degree of Doctor of Science (Honoris Causa) on
Dr. Raghunath Mashelkar
National Research Professor

7th Convocation | 1st April, 2016



Felicitation of Chief Guest Dr. Harsh Vardhan
Minister of Science and Technology and Earth Sciences
Government of India



Conferring the degree of Doctor of Science (Honoris Causa) on
Dr. C. N. R. Rao
National Research Professor & Linus Pauling Research Professor

8th Convocation | 8th April, 2017



Felicitation of Chief Guest **Shri. Nitin Gadkari**,
*Union Minister of Road Transport, Highways and Shipping,
Government of India*



Conferring the degree of Doctor of Science (Honoris Causa) on
Shri. A. S. Kiran Kumar, *Secretary, Department of Space,
Government of India and Chairman (ISRO)*



Conferring the degree of Doctor of Letters
(Honoris Causa) on **Shri. Avdhoot Shivanand**,
*Shiviyog Dham, Avdhoot Shivanand Ashram,
Gurugram, Haryana*



Conferring the degree of Doctor of Letters
(Honoris Causa) on **Shri. Vinay Vilasrao Kore**, *Head,
Warana Co-operative Industrial &
Educational Complex, Kolhapur*

9th Convocation | 29th March, 2018



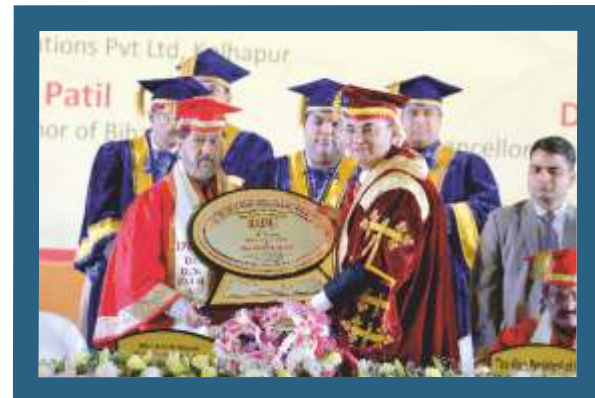
Felicitatation of Chief Guest **Shri. M. Venkenkaiah**
Naidu, Hon'ble Vice President of India



Felicitatation of **Dr. D. Y. Patil**
Former Governor of Bihar



Doctor of Lettrs degree (Honoris Causa) conferred on
Dr. Pratapsinh G. Jadhav Chairman, Pudhari Publication
Pvt. Ltd. Kolhapur



Felicitatation of **Shri. Girish Bapat**
Hon'ble Guardian Minister, Pune



Doctor of Science degree (Honoris Causa) conferred on
Prof. Achyuta Samanta Founder, KIIT and KISS, Bhubaneswar
Member of Parliament (Rajya Sabha)



Doctor of Letters degree (Honoris Causa) conferred on
Adv. Vishnu R. Parnekar
President, Guru Seva Mandal, Parner, Maharashtra

10th Convocation | 13th April, 2019



Tree plantation with the hands of Chief Guest
Dr. Bhushan Patwardhan Hon'ble Vice Chairman,
University Grants Commission, New Delhi



Felicitation of **Dr. Bhushan Patwardhan** Hon'ble
Vice Chairman, University Grants Commission, New Delhi



Doctor of Lettrs degree (Honoris Causa) conferred on
Sant Shri Suman Bhai Kuladhipati, Mountirth, Ujjain



Member of Board of Management with Chief Guest
Dr. Bhushan Patwardhan Hon'ble Vice Chairman,
University Grants Commission, New Dehi



Felicitation of **Dr. D. Y. Patil**
Former Governor of Bihar



Doctor of Letters degree (Honoris Causa) conferred on
Shri B. J. Khatal Patil Former Cabinet Minister,
Governemnt of Maharashtra

11th Convocation | 28th June, 2020

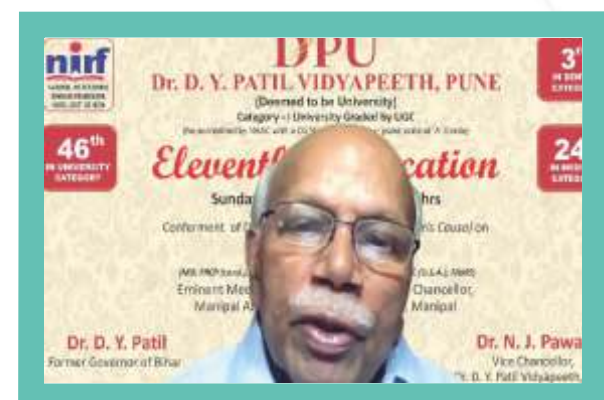
This year due to COVID 19 Pandemic situation all over the world, Dr. D. Y. Patil Vidyapeeth, Pune (Deemed to be University) had conducted its 11 Convocation virtually on Sunday, 28 June, 2020 at 4.00 p.m. Hon'ble Dr. P. D. Patil, Chancellor, Dr. D. Y. Patil Vidyapeeth, Pune delivered the Convocation Address. The Degree of Doctor of Science (Honoris Causa) was conferred on Dr. B. M. Hegde, Former Vice Chancellor, Manipal University, Mangalore. Around 22 candidates were awarded gold medals.



**Lamp Lighting by the hands of Hon'ble
Dr. P. D. Patil, Chancellor,
Dr. D. Y. Patil Vidyapeeth, Pune**



Address by Hon'ble **Dr. N. J. Pawar**, Vice Chancellor,
Dr. D. Y. Patil Vidyapeeth, Pune.



Address by Hon'ble **Dr. B. M. Hegde**, Former
Vice Chancellor, Manipal University, Mangalore

12th Convocation | 29th June, 2021

The Twelfth Convocation ceremony virtually (online) of Dr. D. Y. Patil Vidyapeeth, Pune was held on Tuesday, 29 June 2021, at 12 noon at the Dr. D. Y. Patil Vidyapeeth's Auditorium. The Chief Guest of the program was Hon'ble Dr. Dharendra Pal Singh, Chairman, University Grants Commission, New Delhi. The ceremony was presided by DPU Chancellor, Hon'ble Dr. P. D. Patil and Pro-Chancellor, Hon'ble Dr. Bhagyashreetai patil, graced the function. Vice-Chancellor Dr. N. J. Pawar, presented the Vidyapeeth Report.

Padma Vibhushan Awardee Hon'ble Dr. Jayant Narikar (Emeritus Professor, The Inter-University Center for Astronomy and Astrophysics, (IUCAA) and renowned educationist Hon'ble Prof. Ram Takwale, Chief Mentor, Maharashtra Knowledge Corporation Limited, Former Vice-Chancellor - Pune University, Yashwantrao Chavan Maharashtra Open University, Nashik, Indira Gandhi National Open University, New Delhi) were honoured with Degree of Doctor of Science (Honoris Causa) at the convocation ceremony. The 1577 no. of degrees awarded to graduates in various disciplines, including 14 - Ph.D, 679 graduates, 874 Postgraduates, and 10 diplomas. Also 22 students who have achieved excellence in various examinations of the University were honoured with gold medals



Hon'ble Dr. P. D. Patil
Chancellor DPU, Presided the Ceremony



Hon'ble Dr. Dharendra Pal Singh
Chairman UGC, Chief Guest of the Ceremony



Conferring the Degree of Doctor of Science (Honoris Causa) on
Hob'ble Dr. Jayant Narlikar
Emeritus Professor, (IUCAA)



Conferring the Degree of Doctor of Science (Honoris Causa) on
Hob'ble Prof. Ram Takwale
Former Vice-Chancellor YCM Open University, Nashik

13th Convocation | 20 th May, 2022



Felicitation of Chief Guest **Shri. Rajnath Singh**
Defence Minister, Government of India



Felicitation of **Dr. Abhay Firodia**
Chairman, Force Motors Ltd., Pune



Conferring the Degree of Doctor of Science (Honoris Causa) on
Dr. Vedprakash Mishra Pro Chancellor and Chief
Advisor, Datta Meghe Institute of Medical Sciences,
(Deemed to be University), Nagpur



Conferring the Degree of Doctor of Letters (Honoris Causa) on
Dr. Abhay Firodia **Chairman**, Force Motors Ltd., Pune



Conferring the Degree of Doctor of Letters (Honoris Causa) on
Shri. Prataprao pawar **Chairman**, Sakal Media Group, Pune



Felicitation of **Shri. Prataprao Pawar**
Chairman, Sakal Media Group, Pune

14th Convocation | 14th August, 2023



Felicitations of Chief Guest
Shri Ramesh Bais
Hon'ble Governor of Maharashtra



Conferring the Degree of Doctor of Science (*Honoris Causa*) on
Shri. Arun Firodia
Chairman, Kinetic Group, Pune



Felicitations of
Shri. Arun Firodia
Chairman, Kinetic Group, Pune



Conferring the Degree of Doctor of Science (*Honoris Causa*) on
Dr. Pramod Chaudhari
Founder & Executive Chairman, Praj Industries Ltd., Pune



Felicitations of
Dr. Pramod Chaudhari
Founder & Executive Chairman, Praj Industries Ltd., Pune



Conferring the Degree of Doctor of Science (*Honoris Causa*) on
Dr. P. N. Razdan
Principal Advisor, Quality Assurance & Excellence Cell,
Ramaiah Group of Institutions, Bangalore



Felicitations of
Dr. P. N. Razdan
Principal Advisor, Quality Assurance & Excellence Cell,
Ramaiah Group of Institutions, Bangalore

15th Convocation | 13th April, 2024



Felicitation of Chief Guest
Shri Ram Nath Kovind
Hon'ble Former President of India



Conferring the Degree of Doctor of Science (*Honoris Causa*) on
Shri. Somanath S.
Chairman - Indian Space Research Organisation (ISRO), Bengaluru
Chairman - Space Commission and Secretary - Dept. of Space, GoI



Felicitation of
Shri. Somanath S.
Chairman - Indian Space Research Organisation (ISRO), Bengaluru
Chairman - Space Commission and Secretary - Dept. of Space, GoI



Conferring the Degree of Doctor of Science (*Honoris Causa*) on
Prof. (Dr.) S. B. Mujumdar
Founder & President - Symbiosis, Pune
Chancellor - Symbiosis International (Deemed University), Pune



Felicitation of
Prof. (Dr.) S. B. Mujumdar
Founder & President - Symbiosis, Pune
Chancellor - Symbiosis International (Deemed University), Pune

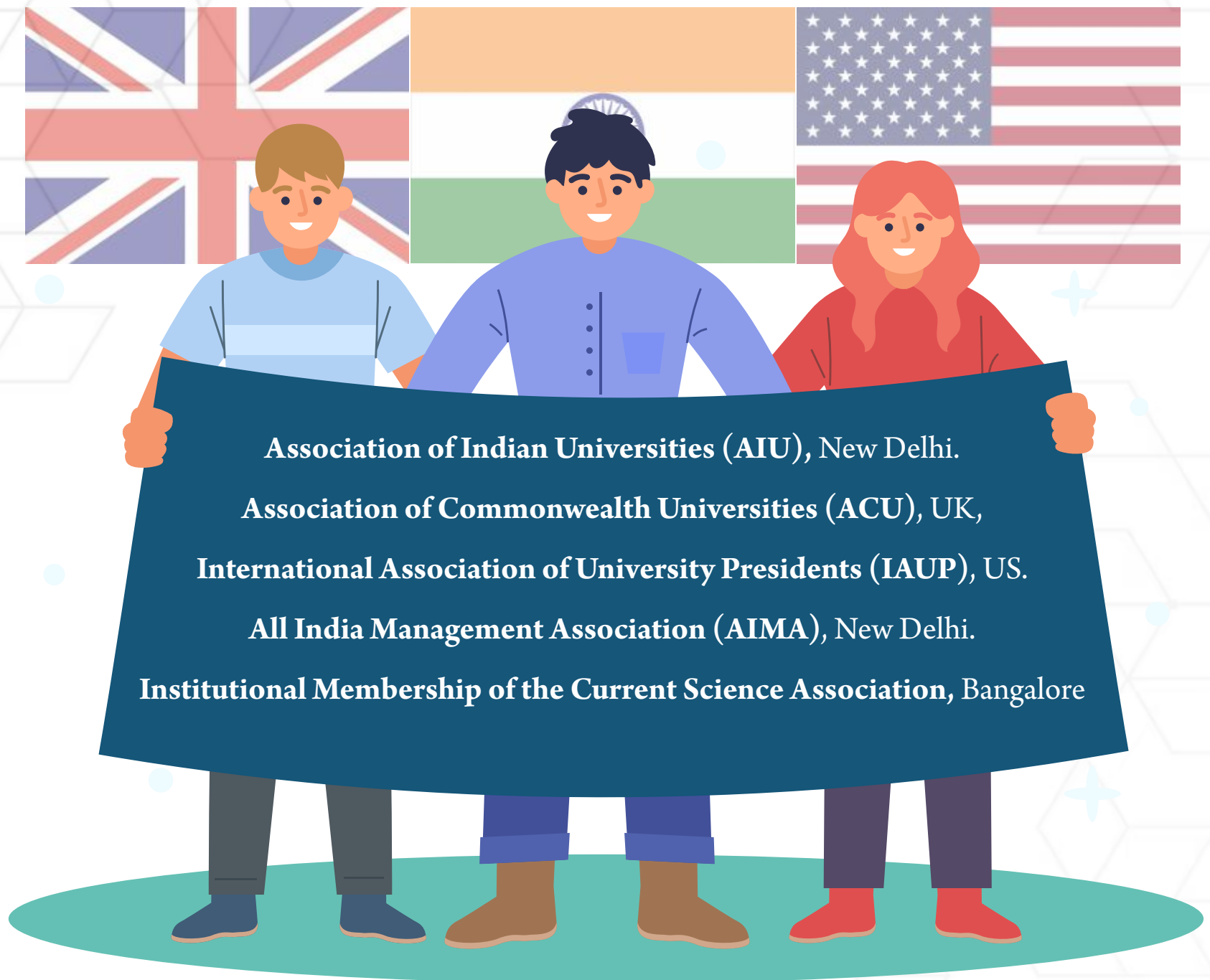
Infrastructure & Learning Resources:

- + Adequate space for the student's activities.
- + Well-stocked library with latest reference books and journals from National and International levels.
- + Modern amenities including laboratories, lecture halls, auditorium and offices as per the INC norms.
- + Facilities for comprehensive nursing care in all specialties in our own hospital are available.

Research / Collaborations:

- + The success of DPU in establishing strong research credentials and a vibrant research culture are evidenced by progressive increase in number of publications, enhanced bibliometrics, receipt of external funding, continuing collaborations and development of new collaborations with world class universities.
- + DPU established 'DPU Foundation for Innovation Incubation and Entrepreneurship' (DPU FIIE) a nonprofit organization registered under section 8 of Companies Act, 2013.
- + DPU signed various MoUs and collaborative agreements with many institutions in India and worldwide. The International linkages of DPU have helped it in drawing upon the wisdom built up at the partner institutions of repute. Some of the important ones are with Department of Global Health Education, Johns Hopkins University, USA; Public Health Queen's University, Belfast; University of Skövde, Sweden, Massachusetts Institute of Technology (MIT) and Harvard University, USA, etc.
- + DPU offers Ph.D. and Post-Doctoral Scholarships. A scholar can also pursue Ph.D. in Interdisciplinary Sciences.
- + The “Medical Journal of Dr. D. Y. Patil Vidyapeeth” has been indexed in SCOPUS and UGC-CARE. Also, “Journal of Dental Research and Review” has been indexed in UGC-CARE.

National and International Memberships –



Association of Indian Universities (AIU), New Delhi.

Association of Commonwealth Universities (ACU), UK,

International Association of University Presidents (IAUP), US.

All India Management Association (AIMA), New Delhi.

Institutional Membership of the Current Science Association, Bangalore

Constituent Colleges and Institutes:

Dr. D. Y. Patil Medical College, Hospital and Research Centre, Pimpri, Pune

Dr. D. Y. Patil Dental College and Hospital, Pimpri, Pune

Dr. D. Y. Patil Biotechnology and Bioinformatics Institute, Tathawade, Pune

Global Business School and Research Centre, Tathawade, Pune

Dr. D. Y. Patil College of Nursing, Pimpri, Pune

Dr. D. Y. Patil College of Physiotherapy, Pimpri, Pune

Dr. D. Y. Patil Homoeopathic Medical College & Research Centre, Pimpri, Pune

Dr. D. Y. Patil College of Ayurved & Research Centre, Pimpri, Pune

Dr. D. Y. Patil Institute of Optometry & Visual Sciences, Pimpri, Pune

Centre for Online Learning, Sant Tukaram Nagar, Pimpri, Pune.

Dr. D. Y. Patil School of Allied Health Sciences, Pimpri, Pune

Dr. D. Y. Patil School of Liberal Arts, Pimpri, Pune

Dr. D. Y. Patil School of Design, Tathawade, Pune

Dr. D. Y. Patil School of Science and Technology, Tathawade, Pune

Dr. D. Y. Patil

College of Nursing, Pimpri, Pune

(Approved by Government of Maharashtra
and Indian Nursing Council, New Delhi)

Dr. D. Y. Patil College of Nursing, Pimpri, Pune - 411018 (Maharashtra) India is recognized by Government of India and University Grants Commission and is affiliated to Indian Nursing Council, New Delhi and included under the ambit of Dr. D. Y. Patil Vidyapeeth, Pimpri, Pune-18.

Established in 2000, Dr. D. Y. Patil, located in Pimpri, was founded with the aim of providing nursing education to students. The college's well-appointed campus encompasses fully equipped laboratories, lecture halls, an auditorium, and offices that meet the standards set by the Indian Nursing Council. Renowned for producing competent graduate nurses who deliver exceptional services, the college has earned a reputation for its commitment to high-quality education. This recognition is a testament to the state-of-the-art infrastructure and dedicated faculty of the Nursing College, highlighting the institution's potential for excellence.

After evaluating performance based on these criteria, the Government of India and the University Grants Commission considered the inclusion of the institute under the University.





The Infrastructure

Within our walls, a world of healing unfolds. Our nursing college infrastructure stands as a testament to our commitment to providing a nurturing environment for aspiring nurses. From well-equipped simulation labs to modern classrooms and inviting study spaces, our infrastructure paves the way for hands-on learning, collaboration, and growth.



Central Library:

The College has an excellent central library facility. It has a total floor area of 4500 sq. meter, with a provision for a separate reading room for the teaching staff and spacious reading halls to accommodate over 750 students. The total collection of the central library is more than 30,000 volumes.

Reading Room:

Library subscribes to most of the national and international journals required for the undergraduate and post-graduate students and faculty. In addition to the central library facility, the college has its Department Library. The Reading Room of the central library is kept open for 16 hours a day. The central library has been provided with Internet facility and students and the faculty have open access to this facility



Lecture Halls:

The College has spacious ICT - enabled lecture halls. The desks are well spaced out and halls are well ventilated. Each hall also has the latest audio-visual teaching aids.

Auditorium:

The State-of-the-Art Auditorium is spacious, centrally airconditioned with ergonomically designed chairs and is fully equipped with latest audio-video facilities with seating capacity of 1000 and 250 and is being extensively used for all kinds of seminars, symposia, lecture of guest speakers and student activities.





OBGY Laboratory:

A lab equipped with models, mannequins, and simulators for students to practice skills related to maternal and child healthcare, including obstetric and neonatal care.

Child Health Nursing Laboratory:

simulated setup where students practice various nursing skills, including neonatal care, medication administration, and patient monitoring.



Nursing Foundation Laboratory:

Simulated setup where students practice various medical-surgical nursing skills, including wound care, medication administration, and patient monitoring.



Nutrition Laboratory:

Well equipped nutrition lab to focus on dietary management, therapeutic diet and dietary research during course.

Community Health Nursing Laboratory:

Simulated setup where students are oriented to preventive aspect and in health care and under all level of preventions in community areas.



Computer Laboratory:

Equipped with computers and internet access for students to enhance their computer literacy skills and conduct online research.

Academic Activities

- Alumni Association was established in the year 2007 namely as 'DYPSeva Alumni'.
- As per Indian Nursing Council, New Delhi syllabus students do get exposure to various high-tech hospitals, institutions for field visits i.e. Bangalore, Mysore and Ooty etc.
- All the students participate in National Health Programme like Pulse Polio Programme, National Health Day Celebration, Blood Donation Camps, organizing exhibition, giving health talks in Urban & Rural areas with the help of local Pimpri-Chinchwad Municipal Corporation and Zilla Parishad health workers & these news are published in local newspapers.
- Students perform street plays and puppet shows in communities in schools of Urban & Rural Area.
- All the students observe all the National health days.
- To mark World Diabetic Day was conducted in which all the students actively participated.
- World Food Day was observed to give health education to patients and relatives regarding diet in various disease conditions.
- World Heart Day was celebrated for the outpatient department.
- AIDS Day was observed and a visit to NARI was arranged.



TNAI QUIZ Competition, Mumbai

Student's Academic Activities & Extra Curricular Activities

- College has active Students Nurses Association where they take part in sports, different competitions, cultural activities of local, state and national level conferences and receive certificates and prizes.
- Every year students celebrate International Nurses Week on the occasion of Birthday of Ms. Florence Nightingale, founder of Nursing Profession on 12 May. During this week one of theme is declared by International Council of Nurses and as per that theme staff and students take part in different activities and contribute on the health theme and give message in the society for whole year.
- Students take active part at University, Spandan Programme where inter collegiate activities are held.
- This helps to broaden the scope the of learning and provide a platform to display various skills and talents and improve their team approach and National spirit.
- Students celebrate Annual Day as Spectrum every year where they take part in sports, hair style, elocution, Rangoli, Mehendi, Indoor games and cultural activities competitions and get certificate and prizes for securing 1st rank.
- This helps the students to show their talent in professional activities, National Health Programmes and overall personality development. Through all these activities potential leaders, teachers, educators and researches are developed through the college.



International Conference:

- International Conference is a forum to bring together business people, researchers, scientists, software architects, and industry professionals to discuss innovative ideas and diverse topics on the next generation of information technologies and services.
- The International Conference encourages & motivates students for writing research papers. By arranging International Research Conference students become research oriented.



Special Moment

Lamp Lighting



Diwali Celebration



Christmas Celebration




**“Your Gateway
to Success:
Explore Our
Range of Courses”**



- **Bachelors of Science (B.Sc.) Nursing**
- **P. B. B.Sc. (Nursing)**
- **Masters of Science (M.Sc.) Nursing**
- **Nurse Practitioner in Critical Care (N.P.C.C.)**
- **Critical Care Nursing**
- **Doctor of Philosophy**





Bachelors of Science (B.Sc.) Nursing

**EMPOWER
YOUR
POTENTIAL
WITH B.Sc. NURSING
EXPLORE, LEARN, LEAD!**

“Experience the Empowerment at Dr. D. Y. Patil Nursing College: Our comprehensive B.Sc program equips aspiring students with knowledge, skills, and practical experience, providing a competitive edge and expanding their network. Unlock endless possibilities for success in your nursing career and become a future Nursing leader.”

About Bachelors of Science (B.Sc.) Nursing

Course Duration: The Bachelor of Science in Nursing is a full time four 4 years undergraduate programme in Nursing and it is divided in eight 8 Semesters

Navigating the Journey to Fulfillment

- The nursing college is officially recognized and approved by important regulatory bodies in the nursing field, which ensures that the education provided meets quality standards.
- The college has knowledgeable and experienced teachers who are experts in different areas of nursing. They guide and support students throughout their studies.
- The college has a well-planned and organized curriculum that covers all the important subjects and skills needed for nursing. It includes theoretical classes, practical training, and community health aspects.
- The college has up-to-date facilities, including classrooms, labs, libraries, and computer rooms, which create a good learning environment.
- Students have opportunities to gain practical experience by training in real healthcare settings, such as hospitals and clinics, under the supervision of experienced instructors.
- The college encourages students and faculty to conduct research projects and provides necessary resources and guidance. They also help students present their research at conferences or get their work published.
- The college partners with reputable healthcare institutions, giving students exposure to different types of healthcare settings and promoting teamwork between different healthcare professionals.
- The college puts emphasis on developing practical skills through hands-on practice in laboratories and simulations. Students learn important nursing procedures and how to use advanced medical equipment.
- The college supports students in finding employment after graduation by connecting them with potential employers in hospitals and other healthcare organizations.
- The college provides opportunities for students to continue learning and improving their skills even after graduation. This includes workshops, seminars, and other learning activities to stay updated with the latest developments in nursing practice and healthcare.

Syllabus of Bachelors of Science (B.Sc) Nursing

1st Semester:

1. Applied Anatomy & Applied Physiology
2. Applied Sociology & Applied Psychology
3. Nursing Foundation -I
4. Communicative English
5. Marathi

2nd Semester:

- 1 Applied Biochemistry and Applied Nutrition & Dietetics
2. Nursing Foundation I & II
3. Health/Nursing Informatics & Technology

3rd Semester:

1. Adult Health Nursing I
2. Applied Microbiology and Infection Control including Safety
3. Pharmacology (I) & Pathology (I)

4th Semester:

1. Adult Health Nursing II
2. Pharmacology & Pathology (I & II) and Genetics
3. Professionalism, Ethics and Professional Values

5th Semester:

1. Community Health Nursing I including Environmental Science & Epidemiology
2. Educational Technology/Nursing Education
3. Child Health Nursing I
4. Mental Health Nursing I
5. Introduction to Forensic Nursing and Indian laws

6th Semester:

1. Child Health Nursing (I & II)
2. Mental Health Nursing (I & II)
3. Midwifery/Obstetrics & Gynecology I
4. Nursing Management & Leadership

7th Semester:

1. Community Health Nursing II
2. Midwifery/Obstetrics and Gynecology (OBG) Nursing (I & II)
3. Nursing Research & Statistics

8th Semester:

- Competency Assessment

Scope of Career

After B.Sc. (Nursing)

“A career in Nursing is a journey of compassion, knowledge, and care. It is a path where you touch lives, heal souls, and make a meaningful difference in the world.”

- **Staff Nurse:** Work as a registered nurse in hospitals, clinics, or healthcare facilities, providing direct patient care, administering medications, and assisting in medical procedures.
- **Clinical Nurse Specialist:** Specialize in a specific area of nursing practice, such as critical care, pediatrics, or mental health, providing advanced clinical expertise and guidance to healthcare teams.
- **Nurse Educator:** Pursue a career in academia and teach nursing students in colleges, universities, or nursing schools, sharing knowledge, skills, and best practices.
- **Nurse Researcher:** Conduct research studies and contribute to advancements in nursing science, healthcare policies, and evidence-based practice, working in research institutions or healthcare organizations.
- **Public Health Nurse:** Promote and protect the health of communities, working in public health agencies, government organizations, or community health centers, focusing on preventive care, health education, and population health management.
- **Nurse Administrator/Manager:** Take on leadership roles in healthcare settings, overseeing nursing departments, managing resources, coordinating patient care, and ensuring quality standards are met.
- **Occupational Health Nurse:** Work in occupational health settings, focusing on employee health and safety, conducting health assessments, providing health education, and managing workplace wellness programs.
- **Nurse Practitioner:** Pursue advanced education and training to become a nurse practitioner, specializing in a specific area such as family practice, acute care, or pediatrics, and providing primary healthcare services and prescribing medications.
- **Nurse Midwife:** Specialize in obstetric and gynecological care, providing comprehensive prenatal, labor, and postnatal care to women and their newborns, either in hospitals or as independent practitioners.
- **Nurse Anesthetist:** Pursue advanced education and training to become a certified registered nurse anesthetist, administering anesthesia during surgical procedures and managing patients' pain and anesthesia needs.
- **Nurse Case Manager:** Work in healthcare organizations or insurance companies, coordinating patient care, managing treatment plans, and ensuring optimal healthcare outcomes for patients with complex medical conditions.
- **International/Global Health Nurse:** Work in international or global health settings, providing healthcare services, participating in humanitarian missions, or working with international organizations to address healthcare disparities and improve healthcare access.



Post Basic Bachelors of Science in Nursing (P.B.B.Sc.) Nursing

**EMPOWER
YOUR
POTENTIAL
WITH P.B.B.Sc. NURSING
EXPLORE, LEARN, LEAD!**

“Experience the Empowerment at Dr. D. Y. Patil Nursing College: Our comprehensive P.B.B.Sc Nursing program equips aspiring students with knowledge, skills, and practical experience, providing a competitive edge and expanding their network. Unlock endless possibilities for success in your nursing career and become a future Nursing leader.”

About P.B.B.Sc. Nursing

Course Duration: The P.B.B.Sc.Nursing is a full time two 2 years undergraduate programme in Nursing and it is divided in four 4 Semesters.

Navigating the Journey to Fulfillment

- P.B.B.Sc. Nursing is a bridge program designed for Diploma in Nursing or General Nursing and Midwifery (GNM) diploma holders to upgrade their qualification to a bachelor's degree in nursing.
- The program offers an opportunity for diploma holders to pursue higher education and expand their knowledge and skills in nursing.
- Students can choose elective courses or specialization tracks based on their interests and career goals, such as critical care nursing, oncology nursing, or community health nursing.
- Successful completion of the program makes graduates eligible to apply for professional licensure as registered nurses, expanding their career opportunities.
- The program provides extensive clinical exposure and hands-on training to strengthen clinical skills, decision-making abilities, and competence in providing patient-centered care.
- Interdisciplinary Collaboration: Students have opportunities to collaborate with professionals from other healthcare disciplines, fostering teamwork and a holistic approach to patient care.
- The curriculum emphasizes the importance of research in nursing and equips students with the skills to critically appraise research findings and apply evidence-based practices in their clinical practice.
- The program promotes lifelong learning and continuing education, encouraging students to stay updated with advancements in nursing practice through professional development opportunities.
- Students are prepared to assume leadership and management roles in nursing, acquiring skills in healthcare management, healthcare policies, and quality improvement initiatives.
- P.B.B.Sc. Nursing opens doors to diverse career opportunities in various healthcare settings, including hospitals, community health centers, research institutions, educational institutions, and international nursing positions.

Syllabus of P.B.B.Sc. Nursing

1st Semester:

1. Applied Anatomy & Applied Physiology
2. Applied Sociology & Applied Psychology
3. Nursing Foundation -I
4. Communicative English
5. Marathi

2nd Semester:

1. Psychology
2. Maternal Nursing
3. Child Health Nursing
4. Microbiology
5. Introduction to Computer

3rd Semester:


1. Sociology
2. Community Health Nursing
3. Mental Health Nursing

4th Semester:

1. Introduction to Nursing Education
2. Introduction to Service Administration
3. Introduction to Nursing Research & Statistics & Project

Scope of Career After P.B.B.Sc. Nursing

- + Registered Nurse: P.B.B.Sc. Nursing graduates provide direct patient care, administer medications, and collaborate with healthcare teams in hospitals and other healthcare settings.
- + Specialty Nurse: Graduates can specialize in areas like critical care, pediatrics, or community health, gaining expertise in specific fields of nursing.
- + Nurse Educator: Graduates become nurse educators, teaching and mentoring nursing students, developing curriculum, and facilitating clinical training.
- + Nurse Researcher: Graduates engage in nursing research, conducting studies and publishing findings to advance evidence-based practice.
- + Nursing Administrator/Manager: Graduates assume leadership roles, overseeing nursing departments, managing healthcare facilities, and contributing to quality improvement initiatives.
- + International Nursing Opportunities: Graduates can explore nursing positions abroad, where there is a demand for skilled healthcare professionals.
- + Further Studies: P.B.B.Sc. Nursing serves as a foundation for pursuing advanced degrees in nursing or related fields for specialization in nursing education, administration, research, or advanced practice.



Master of Science (M.Sc.) Nursing

EMBRACE
THE CALLING,
pursue your **PASSION:**
Enroll in M.Sc. Nursing

At Dr. D. Y. Patil Nursing College, we empower aspiring M.Sc. Nursing students to thrive in the world of healthcare. Our comprehensive program provides you with a solid foundation in nursing principles, clinical expertise, and critical thinking skills. Unlock your potential and prepare for a successful career in healthcare, where you can make a difference and care for others.

About Masters of Science (M.Sc.) Nursing

Course Duration: This is a full-time career-oriented Post -Graduate Programme in Commerce. The duration is 2 years. On successful completion of the course the student is awarded M.Sc. (Nursing) degree.

Navigating the Journey to Fulfillment

- Foundational courses in advanced nursing practice, research, and leadership covering topics like health assessment, pathophysiology, pharmacology, and evidence-based practice.
- Options for specialization in areas such as nurse practitioner, nurse educator, nurse administrator, and nurse informatics based on career goals and interests.
- Clinical practicum or internship experiences in real healthcare settings for applying knowledge and developing advanced clinical competencies.
- Courses in research methods, statistics, and evidence-based practice to enhance research skills, potentially involving a research project or thesis.
- Focus on leadership theories, healthcare policy, systems, and management principles to prepare for leadership roles in nursing.
- Opportunity to select specialized courses aligning with individual interests and career goals in nursing.
- Culminating experience, like a comprehensive exam, research project, or practicum, integrating gained knowledge and skills from the program.

Syllabus of Masters of Science (M.Sc.) Nursing

1st Semester:

1. Nursing Education
2. Advance Nursing Practice
3. Nursing Research & Statistics

2nd Semester:

Clinical Speciality - I

1. Medical Surgical Nursing
2. Obstetrics & Gynaecological Nursing
3. Community Health Nursing
4. Child Health Nursing

3rd Semester:

1. Nursing Management

Clinical Speciality- II

1. Medical Surgical Nursing
2. Obstetrics & Gynaecological Nursing
3. Community Health Nursing
4. Child Health Nursing

4th Semester:

Clinical Speciality- II

1. Medical Surgical Nursing
2. Obstetrics & Gynaecological Nursing
3. Community Health Nursing
4. Child Health Nursing
5. Dissertation

Scope of Career After M.Sc. (Nursing)

"Success is not just about making a living; it's about making a difference and pursuing your passion with unwavering determination."

- **Advanced Practice Nurse (APN):** M.Sc. (Nursing) graduates can specialize as advanced practice nurses, providing advanced healthcare services and collaborating with other professionals. They have an expanded scope of practice, diagnosing and treating illnesses, prescribing medication, and offering specialized care.
- **Nurse Educator:** M.Sc. (Nursing) graduates can become nurse educators, shaping the nursing workforce by teaching and mentoring future nurses. They contribute to curriculum development, facilitate clinical training, and play a vital role in imparting knowledge and skills.
- **Nurse Administrator/Manager:** M.Sc. (Nursing) graduates with advanced knowledge and leadership skills can work in administrative or managerial roles in healthcare organizations. They oversee nursing departments, manage facilities, coordinate patient care, and contribute to healthcare policy and quality improvement initiatives.
- **Researcher:** M.Sc. (Nursing) graduates engage in research activities to advance nursing knowledge and evidence-based practice. They conduct studies, analyze data, and publish research findings to improve patient outcomes. They can work in research institutions, healthcare organizations, or academic settings.
- **Clinical Nurse Specialist:** M.Sc. (Nursing) graduates can specialize as clinical nurse specialists, providing expert consultation and leading quality improvement initiatives within specific patient populations or clinical areas. They develop protocols, guidelines, and drive advancements in their specialty.
- **Healthcare Consultant:** M.Sc. (Nursing) graduates can work as healthcare consultants, utilizing their clinical knowledge and insights to guide organizations, policy-makers, or healthcare technology companies. They contribute to improving patient care delivery, optimizing systems, and implementing innovative solutions.
- **Nurse Informaticist:** M.Sc. (Nursing) graduates can pursue a career as nurse informaticists, integrating nursing expertise with information technology. They manage healthcare data, implement electronic health record systems, and enhance technology to improve patient care and outcomes in the digital healthcare era.



Nurse Practitioner in Critical Care (N.P.C.C.)

EMBRACE
THE CALLING,
pursue your **PASSION:**
Enroll in N.P.C.C.

At Dr. D. Y. Patil Nursing College, we empower aspiring Nurse Practitioner students to thrive in the world of healthcare. Our comprehensive program provides you with a solid foundation in nursing principles, clinical expertise, and critical thinking skills. Unlock your potential and prepare for a successful career in healthcare, where you can make a difference and care for others.

About Nurse Practitioner in Critical Care (N.P.C.C.)

Course Duration: The Nurse Practitioner in Critical Care (N.P.C.C.) is a full time two 2 years post graduate programme in Nursing

Navigating the Journey to Fulfillment

- The Nurse Practitioner in Critical Care is a specialized program designed to train nurses to become advanced practitioners in critical care settings.
- The program provides extensive clinical training and hands-on experience in critical care units, equipping students with the necessary skills to handle complex medical cases.
- The curriculum covers a wide range of topics, including advanced pathophysiology, pharmacology, acute and critical care management, and evidence-based practice.
- The course focuses on developing advanced practice nursing skills, enabling graduates to assess, diagnose, and manage critically ill patients independently.
- Students learn to work collaboratively with healthcare teams, including physicians, surgeons, and other specialists, to provide comprehensive patient care.
- The program emphasizes leadership and communication skills, preparing graduates to take up leadership roles in critical care settings.
- The use of simulation technology allows students to practice critical care scenarios, enhancing their decision-making abilities and clinical competence.
- Students are trained in research methodologies and evidence-based practice, empowering them to integrate the latest research findings into their clinical practice.
- The program emphasizes the importance of patient advocacy and ethical decision-making in critical care situations.
- Successful completion of the program makes graduates eligible to pursue certifications such as Acute Care Nurse Practitioner (ACNP) or Adult-Gerontology Acute Care Nurse Practitioner (AGACNP) depending on the focus of the program.

Syllabus of Nurse Practitioner in Critical Care (N.P.C.C.)

1st Semester:

1. Research Application and Evidence Based Practices in Critical Care
2. Advanced Skills in Leadership, Management and Teaching
3. Advanced Pathophysiology & Advanced Pharmacology relevant to Critical Care
4. Advanced Health/Physical Assessment (Theory & Practical)
5. Research Application and Evidence Based Practices in Critical Care

2nd Semester:

1. Foundation of Critical Care Nursing Practices
2. Critical Care Nursing I
3. Critical Care Nursing II
4. Dissertation and Viva

Scope of Career After Nurse Practitioner in Critical Care (N.P.C.C.)

"Success is not just about making a living; it's about making a difference and pursuing your passion with unwavering determination."

- Nurse Practitioner - Critical Care: Graduates can provide advanced care, diagnose and treat critical illnesses, prescribe medications, and collaborate with the healthcare team in critical care settings.
- Critical Care Nurse Specialist: Graduates can specialize in specific patient populations or clinical areas, offering expert consultation, developing protocols, and facilitating quality improvement in critical care.
- Clinical Educator: Graduates can educate and mentor nurses in critical care, enhancing their knowledge and skills through training and professional development.
- Nurse Manager or Nurse Administrator: Graduates can assume leadership roles, managing critical care units, coordinating patient care, and contributing to policy development and quality improvement.
- Researcher: Graduates can conduct research in critical care, advancing knowledge and evidence-based practices in the field.
- Consultant or Advisor: Graduates can provide expertise to healthcare organizations, policymakers, and technology companies, improving patient care and optimizing critical care systems.
- Academic Career: Graduates can contribute to nursing education, mentor future nurses, conduct research, and shape the development of critical care nursing knowledge in academia.

About Critical Care Nursing

Course Duration: The Critical care Nursing is 6 months.

Navigating the Journey to Fulfillment

- ++ The course provides a comprehensive understanding of core nursing principles and basic sciences, including anatomy, physiology, pharmacology, and nursing fundamentals.
- ++ Students delve into advanced pathophysiology, assessment, management, pharmacology, and specialized procedures specific to critical care settings.
- ++ Students gain hands-on experience in critical care settings, applying theoretical knowledge and developing clinical skills under the guidance of experienced preceptors.
- ++ Students participate in simulation-based learning and skills lab sessions to enhance critical care skills and practice procedures.
- ++ Emphasis is placed on working collaboratively with healthcare professionals from different disciplines to foster teamwork and a holistic approach to patient care.
- ++ Students learn to assess complex situations, analyze data, prioritize interventions, and make timely decisions for optimal patient outcomes.
- ++ The course addresses ethical dilemmas, cultural competence, and end-of-life care, promoting compassionate care for patients and families.
- ++ Students are encouraged to engage in lifelong learning, staying updated with evidence-based practices, attending conferences, and pursuing certifications.
- ++ The course develops leadership skills, understanding of healthcare policy, quality improvement, and patient advocacy for leadership roles in critical care
- ++ Students learn to critically appraise research, apply evidence-based guidelines, and contribute to nursing knowledge through research projects.

Syllabus of Critical care Nursing

1. Medical Surgical Nursing

2. Obstetrics & Gynaecological Nursing

3. Child Health Nursing

Scope of Career After Critical care Nursing

- **Critical Care Nurse:** Graduates work in specialized critical care settings, providing direct patient care and collaborating with the healthcare team to ensure optimal outcomes for critically ill patients.
- **Nurse Educator:** Graduates become nurse educators, shaping the next generation of critical care nurses through teaching and mentoring in academic institutions.
- **Clinical Nurse Specialist:** Graduates specialize in critical care, offering expert consultation, developing protocols, and improving patient care within critical care settings.
- **Nurse Manager / Administrator:** Graduates assume leadership roles, managing critical care units, coordinating patient care, and contributing to policy development and quality improvement initiatives.
- **Researcher:** Graduates engage in critical care research, advancing knowledge and evidence-based practices in research institutions or healthcare organizations.
- **Consultant/Advisor:** Graduates become consultants or advisors, providing expertise to healthcare organizations and implementing innovative solutions for critical care delivery.
- **Advanced Practice Nurse:** Graduates can pursue advanced roles as nurse practitioners or clinical nurse specialists, diagnosing and treating patients in critical care settings.
- **Leadership and Management:** Graduates oversee critical care operations, manage resources, and ensure quality patient care as leaders in critical care units or healthcare organizations.
- **Continuing Education:** Critical care nursing offers opportunities for continuous education and specialization in areas like cardiac or pediatric critical care.
- **International Opportunities:** Graduates can explore international job prospects in countries with a demand for skilled critical care nurses, contributing to global healthcare.



Ph.D. Nursing

**EMPOWER
YOUR
POTENTIAL
WITH EVIDENCE BASED
NURSING EXPLORE
AS RESEARCHERS**

About Doctor of Philosophy - Nursing

Course Duration: The Doctor of Philosophy is a full time **Navigating the Journey to Fulfillment**

- The Ph.D. in Nursing focuses on advanced research methodologies, enabling students to contribute to nursing knowledge through original research.
- Scholar can specialize in areas like clinical research, nursing education, policy, or leadership, deepening their expertise and impact in their chosen field.
- Experienced nursing faculty provide support, scholarly advice, and help shape students' research questions and methodologies.
- Students conduct independent research, developing critical thinking and scholarly autonomy as they analyze data and share findings.
- Encouraging collaboration with healthcare professionals from other disciplines fosters a holistic approach to healthcare research.
- Participation in seminars and conferences facilitates intellectual discussions and peer feedback, fostering a scholarly community.
- Ph.D. students gain teaching and mentoring skills, preparing them for future roles as nursing reasearcher .
- Emphasis on publishing research findings in reputable journals and presenting at conferences contributes to nursing science advancement.
- The program nurtures leadership skills, enabling students to analyze healthcare systems, advocate for nursing, and assume leadership roles.
- A multi-year journey with milestones ensures progress and successful completion, including comprehensive exams and dissertation defense.

Scope of Career After Doctor of Philosophy - Nursing

- + **Nursing Researcher:** Ph.D. graduates conduct original research, contribute to nursing knowledge, and work in research institutions, healthcare organizations, or academia, focusing on areas like clinical research or healthcare policy.
- + **Academic Career:** Graduates become faculty members, teach nursing students, supervise research projects, and contribute to curriculum development, mentoring students in their research endeavors.
- + **Nursing Administrator:** Ph.D. nurses with leadership skills oversee nursing departments, manage resources, and influence healthcare policies as nurse executives or administrators in healthcare organizations.
- + **Advanced Clinical Practice:** Graduates maintain a clinical practice as advanced practice nurses, delivering specialized care as nurse practitioners or clinical nurse specialists, combining research and teaching with patient care.
- + **Nursing Consultant:** Ph.D. graduates provide guidance to healthcare organizations, policymakers, or technology companies, improving patient care, developing guidelines, and implementing innovative practices based on their nursing expertise.
- + **Leadership in Professional Organizations:** Graduates assume leadership roles in nursing organizations, influencing policy, advocating for research and practice advancements, and shaping the field of nursing.
- + **International Opportunities:** Ph.D. in Nursing opens doors to global collaborations, allowing graduates to work with healthcare organizations, research institutions, or academic institutions worldwide, contributing to global healthcare initiatives.
- + **Health Policy and Advocacy:** Ph.D. nurses shape healthcare systems, influence legislation, and advocate for improved patient outcomes and nursing practice through health policy and advocacy work.

Admission Procedure

B.Sc. Nursing

"Believe in yourself and all that you are. Know that there is something inside you that is greater than any obstacle."

Admission Requirements as per INC Norms

Basic B.Sc. Nursing

The admissions to B.Sc. (Nursing) course shall be carried out on the basis of the merit as ascertained from the performance of the candidates in All India Nursing Entrance Test 2024 (AINET-2024) conducted by this Vidyapeeth.

■ Intake Details

Intake Capacity and Distribution of Seats

Course	General Category 85%	NRI/PIO/FN Category 15%	Total 100%
Bachelor of Science (Nursing) B. Sc. (Nursing)	85	15	100

■ Eligibility

Only the candidate, who satisfies or is likely to satisfy the following eligibility requirements for admission to the courses, shall be considered eligible to appear for the AINET-2024.

Nationality and Age: The candidate, seeking to appear at the AINET-2024 shall be an Indian national and shall have completed 17 years of the age on or before 31 December 2024.

- i) The candidate, seeking admission to the B. Sc. (Nursing), shall have passed the Higher Secondary Certificate (HSC) examination / the Indian School Certificate (ISC) examination / Central Board of Secondary Education (CBSE) examination or any other examination equivalent to 10+2 HSC examination of any recognized Board from any school / college situated in India after 12 years of study. The candidate with other qualifications shall get an equivalence certificate from the Association of Indian University (AIU), New Delhi.
- ii) The candidate, seeking admission to B. Sc. (Nursing), shall have passed in the subjects of Physics, Chemistry, Biology and English individually. For admission to B. Sc. (Nursing) the candidate must have obtained 45% aggregate marks for general category (40% for reserve category) in Physics, Chemistry & Biology in the qualifying examination, i.e. 10 + 2 / HSC or an equivalent examination.
- iii) A candidate who has appeared or is likely to appear for qualifying examination i.e. HSC etc., and whose results have not been declared at the time of AINET-2024 shall also be considered eligible to appear for AINET-2024 provided he/she has offered the above mentioned subjects at the said qualifying examinations.

Eligibility for NRI / PIO / FN

The minimum age for admission shall be 17 years on 31st December of the year in which admission is sought. He / she must have Physics, Chemistry, Biology and English at the CBSE, ISC, HSC or an equivalent examination in the case of a student from any school that follows that American system of education, the candidate must have studied Physics, Chemistry and Biology at 'AP' 'Advanced Placement' level and must have minimum 'C' grade in these subjects. In the case of students passing Cambridge International Examination (CIE) the candidate should have passed Physics, Chemistry and Biology at “Advanced” level along with English at “Advanced Subsidiary” (AS) level.

Application Procedure

The candidate is advised not to submit the application form for AINET-2024, if he/she does not fulfill any of the above mentioned eligibility requirements. If a candidate fails to fulfill the relevant eligibility requirements, mentioned at i and ii, he / she shall not be considered eligible for seeking admission to the course, even if he/she is placed in the merit list of the AINET-2024.

(Note : Application form fee and Entrance Test Fee are Non Refundable)

Instructions for Applying Online

- Visit <http://admissions.dpu.edu.in> to apply online.
- Fill in your basic details and click on the Apply Now button.
- You will have your dashboard open in front of you. Also welcome mail containing your login ID and password will be sent on your registered email ID. You can use these details to login later.
- Fill the application form completely and upload all the required documents.
- Make the fee payment online. After completion of the entire form with payment, click on 'Submit Button'. Your admission form will get submitted.
- After the successful payment of the fees, you will not be able to make any changes in the Application Form.
- On the dashboard, two links for printing Receipt and Application Form will be available. Take a printout of both the documents for your reference.
- Link to print Admit Cards will be provided later and you will be intimated on your email ID and also through SMS on your given mobile number.
- If you face any technical difficulty at any step while filling the application form, please mail us on the email ID provided on the dashboard of your login page.

Fee Structure

B.Sc. Nursing -

Annual fees payable by the candidates under different category is as follows:

Particulars	General Category	NRI/PIO/FN
Annual Fee (Tuition Fee, Development fees)	₹ 1,45,000/-	US \$ 5000

Calendar of Events for Online Proctor Based AINET-2024

Admission to B. Sc. Nursing Programme

Processing Fee	Rs. 300/-	
Last date for submitting the application form to- Dr. D. Y. Patil Vidyapeeth, Pimpri, Pune for Online Proctor Based All India Nursing Entrance Test - 2024 (AINET-2024)	Without late fee: 21/06/2024 (Friday) Until 5.00p.m. (Test Fee Rs. 750/-) Total Rs. 1050/- With late fee: 28/06/2024 (Friday) Until 5.00p.m. (Total Rs. 1000/-) Total Rs. 1300/-	
Admit cards to candidates who are considered. provisionally eligible for Online Proctor Based AINET-2024	All the candidates who have submitted the online application form are required to download the Admit card online two weeks before the day of Online Proctor Based AINET-2024	
Day, Date & Time of Online Proctor Based AINET-2024	Sunday, 30/06/2024 From 11.00 a.m. to 12.30 p.m.	
Declaration of Result	Will be notified on the Vidyapeeth Website	
Schedule of Counseling	Will be notified on the Vidyapeeth Website	
Venue of admission sessions	Dr. D. Y. Patil College of Nursing, Pimpri, Pune - 411 018	
College to open on	Will be notified on the Vidyapeeth Website	
B.Sc. Nursing Fee Structure	Total Fees IND. ₹ 1,45,000/-	NRI Fees US \$ 5000

The Candidate submitting online application form should also pay processing & entrance fee through gateway payment.

Note-The Processing Fee and the Test Fee is non-refundable

Results will be displayed on the Vidyapeeth website at www.dpu.edu.in. Results of individual candidate will not be communicated on telephone or by post.

Note-

The DPU will provide the facility of downloading Admit Cards of All Indian Entrance Test on website: www.dpu.edu.in Candidates are required to download the admit card from the website and follow the instructions given therein. Candidate may please note that admit cards will not be sent by the post.

The Admit Card will bear the candidate's Roll Number, Name, Father's Name, Photograph, Signature with Name and Address of the student. The candidate should carefully examine the Admit Card downloaded by him/her for all the entries made therein.

Instructions to Candidates

Candidates are advised

1. To take a printout of Admit Card and keep with you before starting the online Test.
2. As this is a proctor based online Test the Candidate can start the exam after due verification and satisfaction of the online proctor,
3. The Admit Card or applying to Entrance Test does not guarantee admission in Nursing programme.
4. Complete the online Test in stipulated time after successful login for the Entrance Test.
5. In case of electricity failure the student can appear from any other computer or laptop using the same login and can complete the exam till the given time.
6. In case of any dispute the university decision will be final.

Introduction

The admissions to B.Sc. Nursing degree course shall be carried out on the basis of the merit as ascertained from the performance of the candidates in All India Nursing Entrance Test 2024 (AINET-2024) conducted by this Vidyapeeth.

List of Documents

(Documents to be produced at the time of Admission Counseling (Original documents with two attested photo copies).

1. Statement of Marks 10th Standard.
2. Board/Passing Certificate 10th Standard.
3. Statement of Marks 12th Standard.
4. Board/Passing Certificate 12th Standard.
5. Leaving or Transfer/Migration Certificate
6. Gap Certificate Affidavit (if applicable).
7. Medical Fitness Certificate (Registered Medical Practitioner).
8. Caste/Validity Certificate (if applicable).
9. Four Copies of recent passport size colour photograph (should be without cap and goggles) with candidates name written on back side.
10. Aadhar Card

Syllabus for AINET 2024

Subjects as per Indian Nursing Council (INC) Norms

Physics

Unit I: Physical World and Measurement

Measurement:- Physics - scope and excitement; nature of physical laws; Physics, technology and society. Need for measurement: Units of measurement; systems of units; SI units, fundamental and derived units. Length, mass and time measurements; accuracy and precision of measuring instruments; errors in measurement; significant figures. Order of magnitude. accuracy and errors in measurement Dimensions of physical quantities, dimensional analysis and its applications.

Unit II: Kinematics

Scalars & Vectors :- Scalar and vector quantities; Position and displacement vectors, general vectors and their notations; equality of vectors, multiplication of vectors by a real number; addition and subtraction of vectors.

Unit vector; Resolution of a vector in a plane – rectangular components. Scalar and Vector product of vectors.

Motion in straight lines: - Frame of reference, Motion in a straight line: Position-time graph, speed and velocity. Elementary concepts of differentiation and integration for describing motion .Uniform and non uniform motion, average speed and instantaneous velocity. Uniformly accelerated motion, velocity time and position-time graphs. Relations for uniformly accelerated motion (graphical treatment). Motion in a plane. Cases of uniform velocity and uniform acceleration Projectile motion. Equation of projectile path, time of flight, horizontal range, maximum height of projectile. Relative velocity

Unit III: Laws of Motion

Laws of Motion: - Intuitive concept of force. Inertia, Newton's first law of motion; momentum and Newton's second law of motion; impulse; Newton's third law of motion. Law of conservation of linear momentum and its applications.

Force:-Types of forces. General idea of gravitation, electromagnetic and nuclear forces. Moment of a force, torque, angular momentum, laws of conservation of angular momentum and its applications. Equilibrium of concurrent forces Centre of mass of a two-particle system, momentum conservation and centre of mass motion. Centre of mass of a rigid body; centre of mass of a uniform rod .

Concurrent Co-planar forces :-Definition of resultant & equilibrant – statement of law of parallelogram of forces -derivation of expression for magnitude & direction of two concurrent coplanar forces – law of triangle of forces & its converse – Lami's theorem – problems.

Uniform circular motion:- Angular displacement, angular velocity and angular acceleration, relation between angular velocity and linear velocity. Dynamics of uniform circular motion: radial acceleration, Centripetal force, examples of circular motion (vehicle on a level circular road, vehicle on banked road).

Vertical circular motion due to earth's gravitation, equation for velocity and energy at different positions of vertical circular motion. Kinematical equation for circular motion in analogy with linear motion.

Unit IV: Work, Energy and Power

Work done by a constant force and a variable force; kinetic energy, work-energy theorem, power. Notion of potential energy, potential energy of a spring, conservative forces: conservation of mechanical energy (kinetic and potential energies); nonconservative forces: motion in a vertical circle; elastic and inelastic collisions in one and two dimensions coefficient of restitution – problems.

Unit V: Motion of System of Particles and Rigid Body

Motion of rigid body :-Equilibrium of rigid bodies, rigid body rotation and equations of rotational motion, comparison of linear and rotational

motions. Moment of inertia, radius of gyration. Kinetic energy of rotating body rolling motion, physical significance of moment of inertia, Values of moments of inertia, for simple geometrical objects (no derivation). Statement of parallel and perpendicular axes theorems and their applications. Angular momentum and its conservation.

Unit VI: Gravitation

Statement and explanation of law of gravitation, definition of G , derivation of relation between g & G . Kepler's laws of planetary motion. The universal law of gravitation. Acceleration due to gravity and its variation with altitude, latitude, depth. Gravitational potential energy and gravitational potential. Escape velocity. Orbital velocity of a satellite. Geo-stationary satellites launching of satellite, expression for period of orbiting satellite.

Brief explanation of inertial mass and gravitational mass, weightlessness condition in orbit.

Unit VII: Properties of Bulk Matter

Elasticity :- Elastic behavior, Stress-strain relationship, Hooke's law, Young's modulus, bulk modulus, shear modulus of rigidity, Relation between elastic constants, Poisson's ratio; elastic energy. Determination of Y , behavior of metal wire under increasing load, applications of elastic behavior of material.

Friction in solid :- Static and kinetic friction, laws of friction, rolling friction, lubrication.

Frictions in liquid :- Pressure due to a fluid column; Pascal's law and its applications (hydraulic lift and hydraulic brakes). Effect of gravity on fluid pressure.

Viscosity, Stokes' law, terminal velocity, Reynold's number, streamline and turbulent flow, critical velocity. Bernoulli's theorem and its applications.

Surface tension :- Surface energy and surface tension, angle of contact, excess of pressure across a curved surface, application of surface tension ideas to drops, bubbles and capillary rise. Effect of impurity, temperature and detergent on surface tension. capillary action in wick of lamp.

Unit VIII Heat

Gas Laws Statement and explanation of Boyle's Law and Charle's Law, Definition of pressure and volume coefficient of gas, absolute zero, Kelvin scale of temperature, perfect gas equation, explanation of isothermal and adiabatic changes, Van-der-Waal's equation of state for real gases.

Mode of Heat Transfer :- Heat, temperature, Thermal expansion; thermal expansion of solids, liquids and gases, anomalous expansion of water; specific heat capacity; C_p , C_v - calorimetry; change of state - latent heat capacity. Heat transfer-conduction, convection and radiation, thermal conductivity.

Radiation :- Newton's law of cooling, Definition of Radiant energy, emissivity and absorptivity, perfect black body, statement and explanation of Kirchhoff's law, Qualitative ideas of Blackbody radiation, Wein's displacement Law, Stefan's law, Plank's law, qualitative explanation of solar constant and surface temperature of sun, principles and working of total radiation pyrometer, Green house effect

Unit IX: Thermodynamics

Thermal equilibrium and definition of temperature (zeroth law of thermodynamics). Heat, work and internal energy. First law of thermodynamics. Isothermal and adiabatic processes.

Second law of thermodynamics: reversible and irreversible processes. Heat engine and refrigerator.

Unit X: Behaviour of Perfect Gases and Kinetic Theory of Gases

Equation of state of a perfect gas, work done in compressing a gas. Kinetic theory of gases - assumptions, concept of pressure.

Kinetic interpretation of temperature; rms speed of gas molecules; degrees of freedom, law of equipartition of energy (statement only) and

application to specific heat capacities of gases; concept of mean free path, Avogadro's number.

Unit XI: Oscillations and Waves

Oscillations:- Periodic motion - time period, frequency, displacement as a function of time. Periodic functions. Simple harmonic motion (S.H.M) and its equation; phase; oscillations of a spring–restoring force and force constant; energy in S.H.M. Kinetic and potential energies; simple pendulum– derivation of expression for its time period.

Sound Wave :- Properties of sound, speed of sound in gas, Newton's formula for speed of sound, Laplace formula, effect of pressure, temperature, humidity and wind on speed of sound.

Definition of sound intensity, explanation of loudness and its unit, distinguish between noise and musical note, comparison of Doppler effect in sound and light.

Wave Motion :- Wave motion. Transverse and longitudinal waves, speed of wave motion relation between speed, velocity and frequency of a progressive wave. Definition of progressive wave & its characteristics, Derivation of equation of a progressive wave & its different forms, definition of wave intensity, mention expression for wave intensity & its unit, Principle of superposition of waves, reflection of waves, Beats, Doppler effect.

Standing wave :- standing waves in strings and organ pipes, fundamental mode and harmonics, effect. Free, forced and damped oscillations (qualitative ideas only), resonance.

Unit XII: Electrostatics

Electric Charges :- Electric Charges; Conservation of charge, Coulomb's law-force between two point charges, forces between multiple charges; superposition principle and continuous charge distribution.

Electrostatic field :- Electric field, electric field due to a point charge, electric field lines, electric dipole, electric field due to a dipole, torque on a dipole in uniform electric field. Mechanical force on unit area of the charge conductor, energy density of the medium. Electric flux, statement of Gauss's theorem and its applications to find field due to infinitely long straight wire, uniformly charged infinite plane sheet and uniformly charged thin spherical shell (field inside and outside). Charged cylinder. Electric potential Electric potential, potential difference, electric potential due to a point charge, a dipole and system of charges; equipotential surfaces, electrical potential energy of a system of two point charges and of electric dipole in an electrostatic field.

Capacitors :- Conductors and insulators, free charges and bound charges inside a conductor. Dielectrics and electric polarisation, capacitors and capacitance, combination of capacitors in series and in parallel, capacitance of a parallel plate capacitor with and without dielectric medium between the plates, energy stored in a capacitor. Van de Graff generator.

Unit XIII: Current Electricity

Electric Current :- Electric current, flow of electric charges in a metallic conductor, drift velocity, mobility and their relation with electric current; Ohm's law, electrical resistance, V-I characteristics (linear and non-linear), electrical energy and power, electrical resistivity and conductivity. Carbon resistors, colour code for carbon resistors; series and parallel combinations of resistors; temperature dependence of resistance.

Internal resistance of a cell, potential difference and emf of a cell, combination of cells in series and in parallel. Elementary idea of secondary cells. concept of super conductivity – explanation of critical temperature, critical field & high temperature superconductors – mention of uses of super conductors – thermistors & mention of their uses. Definition of emf & internal resistance of a cell – ohm's law applied to a circuit – problems.

Kirchhoff's laws:- Kirchhoff's laws and simple applications. Wheatstone bridge, metre bridge. Potentiometer - principle and its applications to measure potential difference and for comparing emf of two cells; measurement of internal resistance of a cell.

Unit XIV: Magnetic Effects of Current and Magnetism

Concept of magnetic field :- Concept of magnetic field, Oersted's experiment. Biot - Savart law and its application to current carrying circular

loop at the centre Magnetic induction at a point along the axis of a coil carrying current, Magnetic induction at a point on the axis of a solenoid, basic concept of terrestrial magnetism, statement & explanation of tangent law, construction & theory of tangent galvanometer, Fleming's left hand rule.

Ampere's law:- Ampere's law and its applications to infinitely long straight wire. Straight and toroidal solenoids, Force on a moving charge in uniform magnetic and electric fields. Cyclotron.

Force on a current-carrying conductor in a uniform magnetic field. Force on a current-carrying conductor in a uniform magnetic field. Force between two parallel current-carrying conductors-definition of ampere. Torque experienced by a current loop in uniform magnetic field; moving coil galvanometer-its current sensitivity and conversion to ammeter and voltmeter.

Magnetism :- Origin of magnetism due to moving charges, equivalence between magnetic dipole and circular coil carrying current, definition of magnetic dipole moment, and its unit, torque acting on a magnet in uniform magnetic field, Current loop as a magnetic dipole and its magnetic dipole moment. Magnetic dipole moment of a revolving electron. Magnetic field intensity due to a magnetic dipole (bar magnet) along its axis and perpendicular to its axis. Torque on a magnetic dipole (bar magnet) in a uniform magnetic field; bar magnet as an equivalent solenoid, magnetic field lines; Earth's magnetic field and magnetic elements.

Types of magnetic material :- Para-, dia- and ferro – magnetic substances, with examples. Ferromagnetism on the basis of domain theory, Curie temperature Electromagnets and factors affecting their strengths. Permanent magnets.

Unit XV: Electromagnetic Induction and Alternating Currents

Electromagnetic induction; Faraday's laws, induced emf and current; Lenz's Law, Eddy currents. Self and mutual induction. Alternating currents, peak and rms value of alternating current/voltage, Expression for energy stored in the coil, derivation for sinusoidal emf, reactance and impedance; LC oscillations (qualitative treatment only), LCR series circuit, Expression for impedance & current in LCR series circuit by phasor diagram method, explanation of resonance, derivation for resonant frequency, brief account of sharpness of resonance & Q- factor, power in AC circuits with resistance, inductance and capacitance, power factor & wattless current. Qualitative description of choke, basic ideas of magnetic hysteresis AC generator and construction & working of transformer, power losses in transformer, Principle & working of moving iron meter, explanation of transmission of electric power, advantages of AC & DC

Unit XVI: Electromagnetic waves

Need for displacement current, Electromagnetic waves and their characteristics (qualitative ideas only). Transverse nature of electromagnetic waves. Electromagnetic spectrum (radio waves, microwaves, infrared, visible, ultraviolet, X-rays, gamma rays) including elementary facts about their uses. Space communication, types of propagation of electromagnetic waves in atmosphere.

Unit XVII: Optics

Refraction at plane surface:- Refraction through a glass slab, expression for lateral shift and normal shift, total internal reflection and its applications, optical fibers, its application in communication.

Refraction through prism :- Refraction and dispersion of light through a prism. Prism formula, Deviation through thin prism, angular dispersion, and dispersive power, conditions for dispersion without deviation.

Refraction at spherical surface :- Reflection of light, spherical mirrors, mirror formula. Refraction of light, refraction at spherical surfaces, lenses, thin lens formula, lens maker's formula. Magnification, power of a lens, combination of thin lenses in contact, combination of a lens and a mirror. Scattering of light - blue colour of sky and reddish appearance of the sun at sunrise and sunset. Elementary idea of Raman effect.

Optical instruments : Human eye, image formation and accommodation, correction of eye defects (myopia, hypermetropia) using lenses. Microscopes and astronomical telescopes (reflecting and refracting), compound microscope and their magnifying powers, reflecting telescope.

Wave optics: Brief explanation of Newton's corpuscular theory, Huygen's wave of theory and Maxwell electromagnetic theory, Wave front, wave normal and Huygen's principle, reflection and refraction of plane wave at a plane surface using wave fronts. Proof of laws of reflection and refraction using Huygen's principle.

Interference :- Theory of Interference, conditions for constructive and destructive interference, Young's double slit experiment and expression for fringe width, coherent sources and sustained interference of light .

Diffraction :- Distinguish between Fresnel and Fraunhofer diffraction, diffraction due to a single slit, width of central maximum, Rayleigh's criteria. Resolving power of microscopes and astronomical telescope.

Polarisation :- Polarisation, plane polarised light, explanation of plane of polarization and plane of vibration, Brewster's law, uses of plane polarised light and Polaroids.

Speed of Light :- Michelson's rotating mirror experiment to determine light importance of speed of light .

Unit XVIII: Dual Nature of Matter and Radiation

Introduction of Atomic physics Types of electron emission, description and theory of Dunnington's method of finding, e/m of an electron, explanation of types of spectra, emission and absorption spectra, brief account of Fraunhofer lines, explanation of electromagnetic spectra with emphasis on frequency.

Photoelectric effect :- Dual nature of radiation. Photoelectric effect, Hertz and Lenard's observations; Einstein's photoelectric equation- particle nature of light, photoelectric cell and its application.

deBroglie's hypothesis :- Matter waves-wave nature of particles, de Broglie relation. Davisson-Germer experiment (experimental details should be omitted; only conclusion should be explained). Wave length of electron, principle of electron microscope, scanning of electron microscope, transmission electron microscope and atomic force microscope.

Unit XIX: Atoms & Nuclei

Bohr's atom model :- Alpha-particle scattering experiment; Rutherford's model of atom Bohr atomic model for hydrogen atom, Bohr's Postulates- expression for radius velocity, energy, wave number, spectral series of hydrogen, energy level diagram, explanation of ionization & excitation of energy, limitation of Bohr's theory, explanation of Sommerfeld & vector atom models .

Lasers :- Interaction between energy levels & electromagnetic radiation, laser action, population inversion, optical pumping, properties of lasers, construction & working of Ruby laser, application of laser, brief account of photonics .

Nuclear Physics:- Characteristics of nucleus, Composition and size of nucleus, atomic masses, isotopes, isobars; isotones, qualitative explanation of liquid drop and nuclear magnetic resonance and its application in medical diagnostics as MRI nuclear forces and their characteristics, Mass-energy relation, mass defect; binding energy per nucleon and its variation with mass number; Nuclear fission with equation, Nuclear chain reaction, critical mass, controlled & uncontrolled chain reactions, types of nuclear reactor, mention their principles, dispose of nuclear waste nuclear fusion. Stellar energy (carbon & proton cycle)

Radioactivity :- Laws of radioactivity, decay law, explanation of decay constant, half life period, mean life, relation between half & mean life, unit of activity, Becquerel & Curie – artificial transmutation, artificial radioactivity, radio isotopes & mention their uses, brief account of Biological effects of radiation & safety measures.

Elementary Particles :- basic concepts of decay, neutrino hypothesis, beta leptons & hadrons, Qualitative explanation of it, Quarks.

Unit XX: Electronic Devices

Energy bands in solids Energy bands in solids (Qualitative ideas only) conductor, insulator and semiconductor; semiconductor diode – I-V characteristics in forward and reverse bias, diode as a rectifier; I-V characteristics of LED, photodiode, solar cell, and Zener diode; Zener diode as a voltage regulator. Junction transistor, transistor action, characteristics of a transistor, transistor as an amplifier (common emitter configuration) and oscillator. Logic gates (OR, AND, NOT, NAND and NOR). Transistor as a switch.

Unit XXI: Communication Systems

Elements of a communication system (block diagram only); bandwidth of signals (speech, TV and digital data); bandwidth of transmission medium. Propagation of electromagnetic waves in the atmosphere, sky and space wave propagation. Need for modulation. Production and detection of an amplitude.

Chemistry

Unit I: Solid State

Classification of solids based on different binding forces: molecular, ionic, covalent and metallic solids, amorphous and crystalline solids (elementary idea). Unit cell in two dimensional and three dimensional lattices, calculation of density of unit cell, packing in solids, packing efficiency, voids, number of atoms per unit cell in a cubic unit cell, point defects.

Electrical and magnetic properties-Band theory of metals, conductors, semiconductors and insulators and n & p type semiconductors, diamagnetism, paramagnetism, ferromagnetism.

Unit II: Solutions (Solution and colligative properties)

Types of solutions, expression of concentration of solutions of solids in liquids, solubility of gases in liquids, solid solutions.

Colligative properties - relative lowering of vapour pressure, Raoult's law, elevation of boiling point, depression of freezing point, osmotic pressure, determination of molecular masses using colligative properties, abnormal molecular mass, van't Hoff factor

Unit III: Electrochemistry

Redox reactions, conductance in electrolytic solutions, specific and molar conductivity, variations of conductivity with concentration, Kohlrausch's Law, electrolysis and law of electrolysis (elementary idea), Types of cell - Dry cell -electrolytic cells and Galvanic cells, lead accumulator. EMF of a cell, standard electrode potential, Nernst equation and its application to chemical cells, Relation between Gibbs energy change and emf of a cell, fuel cells, corrosion.

Unit IV: Chemical Kinetics

Rate of a reaction (Average and instantaneous), factors affecting rate of reaction: concentration, temperature, catalyst; order and molecularity of a reaction, rate law and specific rate constant, integrated rate equations and half life (only for zero and first order reactions), concept of collision theory (elementary idea, no mathematical treatment). Activation energy, Arrhenius equation

Unit V: Surface Chemistry

Types of Adsorption - physisorption and chemisorption, Factors affecting adsorption of gases on solids. catalysis, homogenous and heterogenous activity and selectivity; enzyme catalysis colloidal state distinction between true solutions, colloids and suspension; lyophilic, lyophobic multimolecular and macromolecular colloids; Properties of colloids; Tyndall effect, Brownian movement, electrophoresis, coagulation, emulsion - types of emulsions.

Unit VI: General Principles and Processes of Isolation of Elements

Principles and methods of extraction - concentration, oxidation, reduction - electrolytic method and refining; occurrence and principles of extraction of aluminium, copper, zinc and iron.

Unit VII: p-Block Elements

Group -16 Elements: General introduction, electronic configuration, occurrence, oxidation states, trends in physical and chemical properties; Nitrogen -Preparation properties & uses ; compounds of nitrogen, preparation and properties of ammonia and nitric acid, oxides of nitrogen (Structure only) ; Phosphorus - allotropic forms, compounds of phosphorus: preparation and properties of phosphine, halides PCl_3 , PCl_5 and oxoacids (elementary idea only).

Group 16 Elements: General introduction, electronic configuration, oxidation states, occurrence, trends in physical and chemical properties,

Dioxygen: Preparation, Properties and uses, classification of oxides, Ozone, Sulphur -allotropic forms;

Sulphur: Preparation properties and uses of sulphur-dioxide,

sulphuric acid: industrial process of manufacture, properties and uses; Oxoacids of sulphur (Structures only).

Group 17 Elements: General introduction, electronic configuration, oxidation states, occurrence, trends in physical and chemical properties; compounds of halogens, Preparation, properties and uses of chlorine and hydrochloric acid, interhalogen compounds, oxoacids of halogens (structures only).

Group 18 Elements: General introduction, electronic configuration, occurrence, trends in physical and chemical properties, uses.

Unit VIII: d and f Block Elements

d Block Elements General introduction, electronic configuration, occurrence and characteristics of transition metals, general trends in properties of the first row transition metals - metallic character, ionization enthalpy, oxidation states, ionic radii, colour, catalytic property, magnetic properties, interstitial compounds, alloy formation, preparation and properties of $K_2Cr_2O_7$ and $KMnO_4$.

f Block Elements Lanthanoids - Electronic configuration, oxidation states, chemical reactivity and lanthanoid contraction and its consequences. Actinoids - Electronic configuration, oxidation states and comparison with lanthanoids.

Unit IX: Co-ordination Compounds

Coordination compounds - Introduction, ligands, coordination number, colour, magnetic properties and shapes, IUPAC nomenclature of mononuclear coordination compounds. Bonding, Werner's theory, VBT, and CFT; structure and stereoisomerism, importance of coordination compounds (qualitative inclusion, extraction of metals and biological system).

Unit X : Haloalkanes and Haloarenes.

(Halogen derivatives of alkanes and arenes)

Haloalkanes: Nomenclature, nature of C -X bond, physical and chemical properties, mechanism of substitution reactions, optical rotation, stability of carbocations R-S and d-I configurations.

Haloarenes: Nature of C -X bond, substitution reactions (Directive influence of halogen in monosubstituted compounds only), stability of carbocations R-S and d-I configurations.

Uses and environmental effects of - dichloromethane, trichloromethane, tetrachloromethane, iodoform, freons, DDT.

Unit XI: Alcohols, Phenols and Ethers

Alcohols: Nomenclature, methods of preparation, physical and chemical properties(of primary alcohols only), identification of primary, secondary and tertiary alcohols, mechanism of dehydration, uses with special reference to methanol and ethanol.

Phenols: Nomenclature, methods of preparation, physical and chemical properties, acidic nature of phenol, electrophilic substitution reactions, uses of phenols.

Ethers: Nomenclature, methods of preparation, physical and chemical properties, uses

Unit XII: Aldehydes, Ketones and Carboxylic Acids

Aldehydes and Ketones: Nomenclature, nature of carbonyl group, methods of preparation, physical and chemical properties, mechanism of nucleophilic addition, reactivity of alpha hydrogen in aldehydes: uses.

Carboxylic Acids: Nomenclature, acidic nature, methods of preparation, physical and chemical properties; uses.

Unit XIII: Organic compounds containing Nitrogen

Amines: Nomenclature, classification, structure, methods of preparation, physical and chemical properties, uses, identification of primary, secondary and tertiary amines.

Cyanides and Isocyanides - will be mentioned at relevant places in text

Diazonium salts: Preparation, chemical reactions and importance in synthetic organic chemistry.

Unit XIV: Biomolecules

Carbohydrates - Classification (aldoses and ketoses), monosaccharides (glucose and fructose), D-L configuration oligosaccharides (sucrose, lactose, maltose), polysaccharides (starch, cellulose, glycogen); Importance of carbohydrates.

Proteins -Elementary idea of - amino acids, peptide bond, polypeptides, proteins, structure of proteins - primary, secondary, tertiary structure and quaternary structures (qualitative idea only), denaturation of proteins; enzymes.

Hormones and Lipids- Elementary idea excluding structure.

Vitamins - Classification and functions.

Nucleic Acids: DNA and RNA

Unit XV: Polymers

Classification - natural and synthetic, methods of polymerization (addition and condensation), copolymerization, some important polymers: natural and synthetic like polythene, nylon polyesters, bakelite, rubber. Biodegradable and nonbiodegradable polymers.

Unit XVI: Chemistry in Everyday life

Chemicals in medicines - analgesics, tranquilizers antiseptics, disinfectants, antimicrobials, antifertility drugs, antibiotics, antacids, antihistamines.

Chemicals in food - preservation, artificial sweetening agents, elementary idea of antioxidants.

Cleansing agents- soaps and detergents, cleansing action.

Unit XVII:Metallurgy-2

Physic-chemical concepts involved in the following metallurgical operations - desilverisation of lead by parke's process-distribution law.Reduction of metal oxides-ellingham diagrams-relative tendency to undergo oxidation in case of elements Fe Ag,Hg,Al,C.Cr,and Mg.Blast furnace-metallurgy of iron-reactions involved and thier role, Role of each ingredient and enegetics .

Unit XVIII: Industrially important compounds

Manufactures of caustic soda by nelson's cell method, ammonia by Haber's process,sulphuric acid by contact process,potassium dichromate form chromite,uses chemical properties of sulphuric acid and potassium dichromate.

Biology

Unit I: Diversity of Living Organism

Introduction to Biology :- Definition of Biology and its main branches, Botany and Zoology, scope of Biology, branches of Biology (definition). Classical branches – morphology, cytology, histology, anatomy, physiology, developmental Biology, biosystematics, genetics, ecology, organic evolution and palaeontology.

Inter disciplinary branches :- biophysics, biochemistry, and biostatistics. Applied branches and career prospects – agriculture, entomology, silviculture, pathology, apiculture, microbiology, and bioinformatics. Role of Biology in myths and disbeliefs.

Biosystematics :- What is life? biodiversity; need for classification; Three domains of life, concept of species:- three domains of life; taxonomy & systematics; concept of species and taxonomical hierarchy; binomial nomenclature; tools for study of taxonomymuseums, zorogical parks, herbaria, botanical gardens.

Five kingdom classification; salient features and classification of Monera, Protista and Fungi (mycota) into major groups: Lichens.

Viruses and Viroid, prions:- Chemical nature with one example of disease each-creutzfeldt- Jacob disease (CZD) and potato spindle tuber disease (PSTD)

Kingdom-Plantae:- Salient features and classification of plants into major groups - Algae, Bryophyta (metaphyta), Pteridophyta, Gymnospermae and Angiospermae (three to five salient and distinguishing features and at least two examples of each category); Angiosperms - classification up to class, characteristic features and examples.

Kingdom-Animalia :- Salient features and classification of animals non chordates up to phyla level and chordates up to classes level (three to five salient features and at least two examples).

Unit II: Structural Organisation in Animals and Plants

Morphology of Plants :- Morphology and modifications; tissues; anatomy and functions of different parts of flowering plants: root, stem, leaf, inflorescence; cymose and racemose, flower (homochlamydeous, heterochlamydeous) fruit and seed (to be dealt along with the relevant practical of the Practical Syllabus).

Study of Animal tissues :- Animal tissues (epithelial, connective, nervous, muscular) Study of Animal Type Example Cockroach:- morphology, anatomy and functions of different systems (digestive, circulatory, respiratory, nervous and reproductive) of an insect (cockroach). (a brief account only)

Unit III: Cell Biology

Organisation of cell :- Cell theory and cell as the basic unit of life; structure of prokaryotic and eukaryotic cells; Plant cell and animal cell; Cell envelope, cell membrane, cell wall; Cell organelles – structure and function; endomembrane system, endoplasmic reticulum, Golgi bodies, lysosomes, vacuoles; mitochondria, ribosomes, plastids, microbodies; cytoskeleton, cilia, flagella, centrioles (ultrastructure and function); nucleus, nuclear membrane, chromatin, nucleolus.

Biochemistry of cell :- Chemical constituents of living cells: biomolecules, structure and function of proteins, carbohydrates, lipids, nucleic acids, enzymes, types, properties, enzyme action.

Cell Reproduction : cell cycle, mitosis, meiosis and their significance

Unit IV: Plant Physiology

Plant water relation & mineral nutrition :- Transport in plants; movement of water, gases and nutrients; cell to cell transport, Diffusion, facilitated diffusion, active transport; plant-water relations, Imbibition, water potential, osmosis, plasmolysis; long distance transport of water - Absorption, apoplast, symplast, transpiration pull, root pressure and guttation; transpiration, opening and closing of stomata; Uptake and translocation of mineral nutrients - Transport of food, phloem transport, mass flow hypothesis; diffusion of gases. Mineral nutrition: Essential minerals, macro and micronutrients and their role; deficiency symptoms; mineral toxicity; elementary idea of hydroponics as a method to study mineral nutrition; nitrogen metabolism, nitrogen cycle, biological nitrogen fixation.

Photosynthesis:- Bioenergetics- introduction, light as the source of energy and ATP as energy currency. photosynthesis as a means of autotrophic nutrition; site of photosynthesis-chloroplast pigments involved in photosynthesis (elementary idea); photochemical and

biosynthetic phases of photosynthesis; cyclic and non cyclic photophosphorylation; chemiosmotic hypothesis ; photorespiration; C3 and C4 pathways; factors affecting photosynthesis.

Respiration:- exchange of gases; cellular respiration - glycolysis, fermentation (anaerobic), TCA cycle and electron transport system (aerobic); energy relations - number of ATP molecules generated; amphibolic pathways; respiratory quotient, Pasteur effect.

Plant growth and development:- seed germination; phases of plant growth and plant growth rate; conditions of growth; differentiation, dedifferentiation and redifferentiation; sequence of developmental processes in a plant cell; growth regulators - auxin, gibberellin, cytokinin, ethylene, ABA; seed dormancy; vernalisation; photoperiodism.

Unit V: Human Physiology

Human Nutrition:-

Digestion and absorption: alimentary canal and digestive glands, role of digestive enzymes and gastrointestinal hormones; Peristalsis, digestion, absorption and assimilation of proteins, carbohydrates and fats; calorific values of proteins, carbohydrates and fats; egestion; nutritional and digestive disorders - PEM, indigestion, constipation, vomiting, jaundice, diarrhoea.

Human Respiration :- Breathing and Respiration: Respiratory organs in animals (recall only); Respiratory system in humans; mechanism of breathing and its regulation in humans – exchange of gases, transport of gases and regulation of respiration, respiratory volume; disorders related to respiration - asthma, emphysema, occupational respiratory disorders.

Circulation:- Body fluids and circulation: composition of blood, blood groups, coagulation of blood; composition of lymph and its function; human circulatory system - Structure of human heart and blood vessels; cardiac cycle, cardiac output, ECG; double circulation; regulation of cardiac activity; disorders of circulatory system - hypertension, coronary artery disease, angina pectoris, heart failure.

Excretion & Osmoregulation :- Excretory products and their elimination: modes of excretion - ammonotelism, ureotelism, uricotelism; human excretory system - structure and function; urine formation, osmoregulation; regulation of kidney function - renin - angiotensin, atrial natriuretic factor, ADH and diabetes insipidus; role of other organs in excretion; disorders - uraemia, renal failure, renal calculi, nephritis; dialysis and artificial kidney.

Human skeleton & Locomotion :-Locomotion and movement: types of movement - ciliary, flagellar, muscular; skeletal muscle - contractile proteins and muscle contraction; skeletal system and its functions; joints; disorders of muscular and skeletal system - myasthenia gravis, tetany, muscular dystrophy, arthritis, osteoporosis, gout.

Control & Co-ordination :-Neural control and coordination: neuron and nerves; Nervous system in humans – central nervous system; peripheral nervous system and visceral nervous system; generation and conduction of nerve impulse; reflex action; sensory perception; sense organs; elementary structure and function of eye and ear. A brief study of epilepsy, Parkinson's disease alzheimer's disease and huntington'

Chemical co-ordination and regulation: endocrine glands and hormones; human endocrine system - hypothalamus, pituitary, pineal, thyroid, parathyroid, adrenal, pancreas, gonads; mechanism of hormone action (elementary Idea); role of hormones as messengers and regulators, hypo - and hyperactivity and related disorders; dwarfism, acromegaly, cretinism, goit, exophthalmic goiter, diabetes, Addison's disease.

Unit VI : Continuity of Life

Reproduction in plants :- Reproduction in organisms: reproduction, a characteristic feature of all organisms for continuation of species; asexual reproduction modes of reproduction - asexual and sexual reproduction; modes – binary fission, sporulation, budding, gemmule, fragmentation; vegetative propagation in plants. Sexual reproduction in flowering plant: flower structure; development of male and female gametophytes; pollination - types, agencies and examples; outbreeding devices; pollen-pistil interaction; double fertilization; post fertilization events - development of endosperm and and embryo, development of seed and formation of fruit; special modes-apomixis, parthenocarpy, polyembryony; Significance of seed and fruit formation.

Early development of frog-structure of egg, cleavage, blastulation, gastrulation, derivatives of primary germ layers.

Human Reproduction:- male and female reproductive systems; microscopic anatomy of testis and ovary; gametogenesis - spermatogenesis and oogenesis; menstrual cycle; fertilization embryo development up to blastocyst formation, implantation; pregnancy and placenta formation (elementary idea); parturition (elementary idea); lactation (elementary idea). Reproductive health: need for reproductive health and prevention of sexually transmitted diseases (STD); birth control – need and methods, contraception and medical termination of pregnancy (MTP); amniocentesis; infertility and assisted reproductive technologies– IVF, ZIFT, GIFT (elementary idea for general awareness).

Unit VII Genetics and Evolution

Genetic basis of inheritance:- Heredity and variation: Mendelian inheritance; deviations from Mendelism – incomplete dominance, co-dominance, multiple alleles and inheritance of blood groups, pleiotropy; elementary idea of polygenic inheritance.

Chromosomal basis of inheritance:- chromosome theory of inheritance; chromosomes and genes; Sex determination – in humans, birds and honey bee; linkage and crossing over; sex linked inheritance - haemophilia, colour blindness; Mendelian disorder in humans - thalassemia; chromosomal disorders in humans; Down's syndrome, Turner's and Klinefelter's syndromes, Turner's syndrome, Cri-du-Chat syndrome. gene disorders-sickle cell anemia, hemophilia.

Gene – Its nature, expression & regulation:- Molecular basis of inheritance: search for genetic material and DNA as genetic material; Structure of DNA and RNA; DNA packaging; DNA replication; Central dogma; transcription, genetic code, translation; gene expression and regulation - Lac Operon; Genome and human genome project; DNA fingerprinting.

Unit VIII Evolution

Origin of life; biological evolution and evidences for biological evolution (paleontology, comparative anatomy, embryology and molecular evidence); Darwin's contribution, modern synthetic theory of evolution; mechanism of evolution – variation (mutation and recombination) and natural selection with examples, types of natural selection; Gene flow and genetic drift; Hardy - Weinberg's principle; adaptive radiation; human evolution.

Unit IX. Biology and Human Welfare

Man in health and diseases-concept of Homeostasis-the central dogma in physiology – definition meaning of internal environment. Factors to be kept constant to achieve homeostasis, Example to illustrate homeostasis.

Human Health and diseases:- pathogens; parasites causing human diseases (malaria, filariasis, ascariasis, typhoid, pneumonia, common cold, amoebiasis, ring worm); Basic concepts of immunology - vaccines; cancer, HIV and AIDs; Adolescence, drug and alcohol abuse. Improvement in food production : Plant breeding, tissue culture, single cell protein, Biofortification, Apiculture and Animal husbandry.

Microbes in human welfare: In household food processing, industrial production, sewage treatment, energy generation and as biocontrol agents and biofertilizers.

Animal Husbandry:- Management of farms and farm animals (dairy, poultry, animal breeding, bee keeping, fisheries, sericulture, lac culture.

Vermiculture Definition and procedure, vermicomposed – degradation of organic waste and role of earthworm in soil fertility.

Unit X Biotechnology and Its Applications

Process & Application:- Principles and process of biotechnology: genetic engineering (recombinant DNA technology). Transposons, plasmids, bacteriophages, production of restriction fragments, preparing and cloning DNA library, gene amplification.

Application of biotechnology:- in health and agriculture: human insulin and vaccine production, gene therapy; genetically modified organisms - Bt crops; transgenic animals; Biosafety issues biopiracy and patents.

Enhancement in food production:- Plant breeding, tissue culture, concept of cellular totipotency, requirement of tissue culture, callus culture, suspension culture, single cell protein, biofortification.

Unit XI Ecology and Environment

Habitat and niche: - Organisms and environment: habitat and niche, population and ecological adaptations; population interactions - mutualism, competition, predation, parasitism; population attributes - growth, birth rate and death rate, age distribution.

Ecosystems:- patterns & energy flow, components; productivity and decomposition; energy flow; pyramids of number, biomass, energy; nutrient cycles (carbon and phosphorous); ecological succession; ecological services - carbon fixation, pollination, oxygen release.

Biodiversity and its conservation:- concept of biodiversity; patterns of biodiversity; importance of biodiversity; loss of biodiversity; biodiversity conservation; hotspots, endangered organisms, extinction, Red Data Book, biosphere reserves, national parks and sanctuaries. Benefits of biodiversity-economic traditional crop varieties, animals of food value, medicinal plants harvested from wild habitats. Ecological/social-for controlling soil-water regimes and hydrology, for efficient organic residue management and soil fertility management, ethical cultural, spiritual and religious belief system centered around the concept of sacred species, sacred groves and sacred landscapes.

Biodiversity depletion-anthropocentric causes-urbanization, expansion of agriculture, deforestation, pollution, acidification of soil and water, Mining activities, desertification and loss of soil fertility. Intellectual property rights- patenting life forms.

Environmental issues:- Air pollution and its control; water pollution and its control; agrochemicals and their effects; solid waste management; radioactive waste management; greenhouse effect and global warming; ozone depletion; deforestation; any three case studies as success stories addressing environmental issues.

Economic Botany:- Introduction, oil yielding plants, groundnut and sunflower, cereals and millets, rice and jowar, pulses, pigeon pea, and Bengal gram, medicinal plants – *Adathoda vasica*, *Ephedra gerardiana*, *dryopteris*, *santalum album*, *gymnema sylvestre*, *Ocimum sanctum*, *Phyllanthus emblica*, Spices – pepper, cloves and cardamom.

Elements of Plant Pathology:- Symptoms, etiology, type and nature of pathogens and methods of control with reference to the following diseases :- banana bunchy top, tikka disease of groundnut, crown gall (of any common dicot plant)

ENGLISH

GRAMMAR

- Parts of speech
- Pairs of confused words, synonyms and Antonyms
- Using appropriate words and expressions
- Lexical sets & collocations

WRITING SKILLS

- Planning, Outlining
- Grammar
- Clarity

APTITUDE TEST IN NURSING

- 1) Numerical reasoning
- 2) Verbal test
- 3) Logical tests
- 4) Reasoning
- 5) Making judgments

Introduction

The admissions to Post Basic B.Sc. (P.B.B.Sc. Nursing) course shall be carried out on the basis of the merit as ascertained from the performance of the candidates in All India Nursing Entrance Test 2024 (AINET-2024) conducted by this Vidyapeeth.

Note: Entrance test will be based on GNM Syllabus by INC 50 MCQ'S of 50 marks of one hour & 30 min. duration. There will be no negative marking.

Intake Details

Intake Capacity and Distribution of Seats.

Course	General Category 85%	NRI/PIO/FN Category 15%	Total 100%
Post Basic B. Sc. (Nursing)	25	05	30

Admission Requirements as per INC Norms

1. The minimum educational requirement shall be the passing of General Nursing & Midwifery.
2. Candidate shall be medically fit. Entrance /Selection Test Selections of the candidates should be based on the merit of the entrance examination held by University or Competent Authority.

Eligibility

Only the candidate, who satisfies or is likely to satisfy the following eligibility requirements for admission to the courses, shall be considered eligible to appear for the AINET-2024. Admissions of the students for P.B.B.Sc. (Nursing) shall be once in a year.

Nationality and Age: The candidate, seeking to appear at the AINET-2024 shall be an Indian national.

- 1) The candidate, seeking admission to the P.B.B.Sc. (Nursing), shall have passed the RGNM/GNM examination.
- 2) A candidate, who has appeared or is likely to appear for qualifying examination, i.e. RGNM / GNM and whose results have not been declared at the time of AINET-2024, shall be considered eligible to appear for AINET-2024

■ Eligibility for NRI / PIO / FN

1. Diploma in General Nursing from a recognized School of Nursing.
2. Minimum 50% marks in Subjects as per INC Syllabus of RGNM programme.
3. Equivalence certificate from INC, New Delhi.

The admissions to P.B.B.Sc. Nursing degree course shall be carried out on the basis of the merit as ascertained from the performance of the candidates in All India Nursing Entrance Test 2024 (AINET-2024) conducted by this Vidyapeeth.

List of Documents (Documents to be produced at the time of Admission Counseling (Original documents with two attested photo copies).

1. GNM / RGNM Statement of Marks (All years)
2. GNM / RGNM Passing Certificate.
3. Registration Certificate.
4. Leaving or Transfer / Migration Certificate.
5. Medical Fitness Certificate (Registered Medical Practitioner)
6. Caste / Validity Certificate (if applicable).
7. (Four-4) Copies of recent passport size color photographs (should be without cap and goggles) with candidates name written on back side.
8. Aadhar Card.

Fee Structure (for P.B.B.Sc. Nursing Course)

Annual fees payable by the candidates under different category is as follows:

Particulars	General Category	NRI/PIO/FN
Annual Fee (Tuition Fee, Development fees)	₹ 1,10,000/-	US \$ 3300

Calendar of Events for Online Proctor Based AINET-2024

Admission to Post Basic B.Sc. Nursing (P.B.B.Sc. Nursing) Programme

Processing Fee	Rs.300/-
Last date for submitting the application form to- Dr. D. Y. Patil Vidyapeeth, Pimpri, Pune for Online Proctor Based All India Nursing Entrance Test - 2024 (AINET-2024)	Without late fee: 21/06/2024 (Friday) Until 5.00p.m. (Test Fee Rs. 1000/-) Total Rs. 1300/- With late fee: 28/06/2024 (Friday) Until 5.00p.m. (Total Rs. 1250/-) Total Rs.-1550/-
Admit cards to candidates who are considered. provisionally eligible for Online Proctor Based AINET-2024	All the candidates who have submitted the online application form are required to download the Admit card online two weeks before the day of Online Proctor Based AINET-2024
Day, Date & Time of Online Proctor Based AINET-2024	Sunday, 30/06/2024 From 11.00 a.m. to 12.30 p.m.
Declaration of Result	Will be notified on the Vidyapeeth Website
Schedule of Counseling	Will be notified on the Vidyapeeth Website
Venue of admission sessions	Dr. D. Y. Patil College of Nursing. Pimpri, Pune - 411 018
College to open on	Will be notified on the Vidyapeeth Website
P.B.B.Sc. Nursing Fee Structure	<div> Total Fees IND. ₹ 1,10,000/- </div> <div> NRI Fees US \$ 3300 </div>

The Candidate submitting online application form should also pay processing & entrance fee through gateway payment.

Note-The Processing Fee and the Test Fee is non-refundable.

Results will be displayed on the Vidyapeeth website at www.dpu.edu.in. Results of individual candidate will not be communicated on telephone or by post.

Note-

The DPU will provide the facility of downloading Admit Cards of All Indian Entrance Test on website: www.dpu.edu.in Candidates are required to download the admit card from the website and follow the instructions given therein. Candidate may please note that admit cards will not be sent by the post.

The Admit Card will bear the candidate's Roll Number, Name, Father's Name, Photograph, Signature with Name and Address of the student. The candidate should carefully examine the Admit Card downloaded by him/her for all the entries made therein.

"Believe in yourself, take on your challenges, dig deep within yourself to conquer fears. Never let anyone bring you down. You got this."

Admission Requirements as per INC Norms

M.Sc. Nursing

As per the merit list, the candidates, who qualify will be called for counseling and Admission onwards at the Dr. D. Y. Patil College of Nursing, Pimpri, Pune by the Competent Authority.

■ Annual Fee Structure

Particulars	General Category	NRI/PIO/FN
Annual Fee (Tuition Fee, Development fees)	₹ 1,30,000/-	US \$ 4500

The admissions to M.Sc. Nursing (Medical Surgical Nursing, Community Health Nursing, Child Health Nursing, Obstetrics & Gynecology Nursing) Post Graduate course shall be carried out on the basis of the merit as ascertained from the performance of the candidates in All India Post Graduate Nursing Entrance Test 2024 (AIPGNET-2024) conducted by this Vidyapeeth and candidates' respective preference(s) given in application form.

List of Documents (Documents to be produced at the time of Admission Counseling (Original documents with two attested photo copies).

1. B.Sc. / P.B.B.Sc. Statement of Marks (All years)
2. Degree Certificate.
3. One year Experience Certificate.
4. Leaving or Transfer / Migration Certificate.
5. Medical Fitness Certificate (Registered Medical Practitioner)
6. Caste / Validity Certificate (if applicable).
7. Four Copies of recent passport size color photographs (should be without cap and goggles) with candidates name written on back side.
8. Aadhar Card.

Eligibility Criteria/Admission Requirements as per INC Norms:

1. The candidate should be a Registered Nurse and Registered midwife or equivalent with any State Nursing Registration Council.
2. Minimum 55% marks in subjects as per the INC syllabus of B.Sc. Nursing / Post Basic B.Sc. Nursing (5% relaxation for caste).
3. The candidate should have undergone B.Sc. Nursing / Post Basic B.Sc. Nursing in an institution which is recognized by the Indian Nursing Council.
4. Minimum one year of work experience after Basic B.Sc. (Nursing).
5. Minimum one year of work experience prior or after Post Basic B.Sc. (Nursing).
6. Candidates should be medically fit.

Eligibility for NRI / PIO / FN

1. Post Basic or B.Sc. Nursing from a recognised college of Nursing.
2. Minimum 55% marks in subjects as per the INC syllabus of B.Sc. Nursing / Post Basic B.Sc. Nursing (5% relaxation for caste).
3. Equivalent certificate from Indian Nursing council, New Delhi.

Calendar of Events for Online Proctor Based AIPGNET-2024

Admission to Master of Science in Nursing (M.Sc. Nursing) Programme

Processing Fee	Rs.300/-	
Last date for submitting the application form to- Dr. D. Y. Patil Vidyapeeth, Pimpri, Pune for Online Proctor Based All India Post Graduate Nursing Entrance Test -2024 (AIPGNET-2024)	Without late fee: 21/06/2024 (Friday) Until 5.00p.m. (Test Fee Rs. 1000/-) Total Rs. 1300/- With late fee: 28/06/2024 (Friday) Until 5.00p.m. (Total Rs. 1250/-) Total Rs.-1550/-	
Admit cards to candidates who are considered. provisionally eligible for Online Proctor Based AIPGNET-2024	All the candidates who have submitted the online application form are required to download the Admit card online two weeks before the day of Online Proctor Based AIPGNET-2024	
Day, Date & Time of Online Proctor Based AIPGNET-2024	Sunday, 30/06/2024 From 11.00 a.m. to 12.30 p.m.	
Declaration of Result	Will be notified on the Vidyapeeth Website	
Schedule of Counseling	Will be notified on the Vidyapeeth Website	
Venue of admission sessions	Dr. D. Y. Patil College of Nursing, Pimpri, Pune 411 018	
College to open on	Will be notified on the Vidyapeeth Website	
M.Sc. Nursing Fee Structure	Total Fees IND. ₹ 1,30,000/-	NRI Fees US \$ 4500

The Candidate submitting online application form should also pay processing & entrance fee through gateway payment.

Note-The Processing Fee and the Test Fee is non-refundable

Results will be displayed on the Vidyapeeth website at www.dpu.edu.in. Results of individual candidate will not be communicated on telephone or by post.

Note-

The DPU will provide the facility of downloading Admit Cards of All Indian Entrance Test on website: www.dpue.edu.in Candidates are required to download the admit card from the website and follow the instructions given therein. Candidate may please note that admit cards will not be sent by the post.

The Admit Card will bear the candidate's Roll Number, Name, Father's Name, Photograph, Signature with Name and Address of the student. The candidate should carefully examine the Admit Card downloaded by him/her for all the entries made therein.

Entrance / Selection test

Selection of the candidates will be based on the merit of the entrance examination held by University or competent authority for the available specialities and number of seats.

Speciality Available

Sr. No.	Courses	Seat
1	Community Health Nursing	05
2	Obstetrics & Gynaecology Nursing	05
3	Child Health Nursing	05
4	Medical Surgical Nursing	05
	Total	20

Nurse Practitioner in Critical Care (N.P.C.C.) program is a Nursing residency program with a main focus on Competency based training. The duration is of two years with the curriculum consisting of theory that includes core courses, advanced practice courses and clinical courses besides clinical practicum which is a major component. It would provide opportunity to Nurse practitioners (NP) to understand, appreciate and acquire skills in teaching and evaluation, curricular development, implementation, maintenance of standards and accreditation of various nursing educational programs to compete with the new challenges and globalization.

This programme prepares nursing graduates who are professionally equipped to deal with day-to-day problems within the existing constraints and thus act as an agent of social change.

Instructions to Candidates

NPCC Student Recruitment/Admission Requirements by the Vidyapeeth

- + Applicants must possess a registered B.Sc./P.B.B.Sc. nurse with a minimum of one year clinical experience, preferably in any critical care setting prior to enrollment.
- + Must have undergone the B.Sc. (Nursing) in an institution found suitable by the Indian Nursing Council and have been registered in any State Nursing Council.
- + Must have scored not less than 55% aggregate marks in the B.Sc. Nursing/P.B.B.Sc. Nursing program.
- + Selection will be based on the merit of an entrance examination and interview held by the competent authority.
- + Must be physically fit.

Salary:

1. In-service candidates will get regular salaries.
2. Stipend/Salary for the other candidates as per the salary structure of the hospital where the course is conducted.

The admission to Nurse Practitioner in critical care post Graduate residency program shall be carried out on the basis of the merit ascertained from the performance of the candidates in All India Nurse Practitioner in Critical Care Entrance test 2024 (AINPCCET-2024) conducted by this Vidyapeeth and candidates respective performance(s) given in application form.

List of Documents (Documents to be produced at the time of Admission Counseling (Original documents with two attested photo copies).

1. B.Sc. Nursing/ P.B.B.Sc. Nursing Statement of Marks (All years)

2. Degree Certificate.

3. One year Experience Certificate.

4. Leaving or Transfer / Migration Certificate.

5. Medical Fitness Certificate (Registered Medical Practitioner)
6. Caste / Validity Certificate (if applicable).

7. Four Copies of recent passport size color photographs (should be without cap and goggles) with candidates name written on back side.

8. Aadhar Card.

Annual Fee Structure

Particulars	General Category	NRI/PIO/FN
Annual Fee (Tuition Fee, Development fees)	₹ 70,000/-	US \$ 2500

Calendar of Events for Online Proctor Based AINPCCET-2024

Admission to Nurse Practitioner in Critical Care (N.P.C.C.) Programme

Processing Fee	Rs.300/-
Last date for submitting the application form to- Dr. D. Y. Patil Vidyapeeth, Pimpri, Pune for Online Proctor Based All India Nurse Practitioner in Critical Care (N.P.C.C.) Entrance Test -2024 (AINPCCET-2024)	Without late fee: 21/06/2024 (Friday) Until 5.00p.m. (Test Fee Rs. 1000/-) Total Rs. 1300/- With late fee: 28/06/2024 (Friday) Until 5.00p.m. (Total Rs. 1250/-) Total Rs.-1550/-
Admit cards to candidates who are considered. provisionally eligible for Online Proctor Based AINPCCET-2024	All the candidates who have submitted the online application form are required to download the Admit card online two weeks before the day of Online Proctor Based AINPCCET-2024
Day, Date & Time of Online Proctor Based AINPCCET-2024	Sunday, 30/06/2024 From 11.00 a.m. to 12.30 p.m.
Declaration of Result	Will be notified on the Vidyapeeth Website
Schedule of Counseling	Will be notified on the Vidyapeeth Website
Venue of admission sessions	Dr. D. Y. Patil College of Nursing. Pimpri, Pune 411 018
College to open on	Will be notified on the Vidyapeeth Website
N.P.C.C Fee Structure	<div> Total Fees IND. ₹ 70,000/- </div> <div> NRI Fees US \$ 2500 </div>

The Candidate submitting online application form should also pay processing & entrance fee through gateway payment.

Note-The Processing Fee and the Test Fee is non-refundable.

Results will be displayed on the Vidyapeeth website at www.dpu.edu.in. Results of individual candidate will not be communicated on telephone or by post.

Note-

The DPU will provide the facility of downloading Admit Cards of All Indian Entrance Test on website: www.dpu.edu.in Candidates are required to download the admit card from the website and follow the instructions given therein. Candidate may please note that admit cards will not be sent by the post.

The Admit Card will bear the candidate's Roll Number, Name, Father's Name, Photograph, Signature with Name and Address of the student. The candidate should carefully examine the Admit Card downloaded by him/her for all the entries made therein.

Subject to Revision

University Eligibility and Registration Fee (One-time Fee)

Additional Convocation Fee of Rs. 5000/- , Alumni Fee of B.Sc Nursing Rs. 1500/-, P.B.B.Sc Rs.1500/-, M.Sc Nursing Rs. 1500/-, NPCC Rs. 1500/-, Critical Care Rs. 800/-, Ph.D Rs. 3000/- and other fees are applicable. 15% (Fifteen Percent) of the Fee payable for the first year only, shall be paid by the student separately at the time of filing the Eligibility Application as University Eligibility & Registration Fee. This fee shall be paid through ERP student login.

(Note: The University Eligibility & Registration Fee is non-refundable)

The Annual fee shall be increased by 3% each year.

The annual fee is to be paid by NEFT / RTGS / Demand Draft in favour of “Principal, Dr. D. Y. Patil College of Nursing, Pimpri, Pune” payable at Pune by the student at the time of counseling and issue of admission letter.

Hostel Accommodation & Fees for Academic Year 2024-25

Hostel and Mess facilities are available.

Annual Hostel Fees III Seater Non AC with mess will be notified on the Vidyapeeth Website: www.dpu.edu.in

University Examination Fee

In addition to the above fees, the student shall pay the University Examination Fee every semester as prescribed by the university from time to time. Other conditions and formalities shall be as per the rule of the University.

Rules for cancellation of an Admission and Refund of Fees:

- Admission to the course can be canceled at the request of the student, on submission of an application before commencement of classes.
- The Student applying for cancellation of the admission on or before the last date of admission, he will be entitled to get refund of fees except administrative charges, provided seat is filled as per Vidyapeeth norms.

Discipline & Conduct of the Student

1.1 Obligations of the Student

- 1.1.1 Conduct himself/herself properly
- 1.1.2 Maintain proper behavior.
- 1.1.3 Observe strict discipline both within the campus, hostel & outside of the Institution.
- 1.1.4 Ensure that no act of his / her consciously or unconsciously brings the Institution or any establishment or authority connected with it into disrespect.

1.2 Any act/s by the student which is contrary to the clause (1), shall constitute misconduct and/or indiscipline, which include any one or more of the acts jointly or severally, mentioned hereinafter;

- 1.2.1 Any act of the student which directly or indirectly causes or attempts to cause disturbance in the lawful functioning of the Institution.
- 1.2.2 The student who is repeatedly absent from the class, lectures, tutorials, practicals and other courses.
- 1.2.3 The student not abiding by the instructions of the Faculty members and not interacting with them with due respect.
- 1.2.4 Any student found misbehaving in the campus/class or behaving arrogantly, violently towards the faculty, staff or fellow student.
- 1.2.5 The Students who is not present for all the class tests, midterm tests, terminal and preliminary examinations.
- 1.2.6 Permitting or conniving with any person / parent / guardian, which is not authorized to occupy hostel room, residential quarter, or any other accommodation or any part thereof of the Institution.
- 1.2.7 Obstruction to any student or group of students in any legitimate activities, in classrooms / laboratories / field or places of social and cultural activities within the campus of the Institute.
- 1.2.8 Possessing or using any fire arms, lethal weapon, explosives, or dangerous substances in the premises of the Institution.
- 1.2.9 Indulging in any act which would cause embarrassment or annoyance to any student / authority / staff or any member of the staff.
- 1.2.10 Stealing or damaging any farm produce or any property belonging to the Institution, staff member or student.
- 1.2.11 Securing admission in the Institution, to any undergraduate or post graduate program or any other course by fabrication or suppression of facts or information.
- 1.2.12 If the student fails to complete the assignments regularly

and has poor academic performance when assessed by the regular class teachers and internal assessment, he/she will not be allowed to appear for the Vidyapeeth examination.

- 1.2.13 If a student remains absent for lectures, practical or class test and examinations without prior permission of the Principal or the head of the departments, she/he will not be compensated for extra class.
- 1.2.14 Students should read the notices regularly on notice boards in the academic complex, library and the department notice boards.
- 1.2.15 Damage of property of the college and its sister institutes like tampering with fixtures, fittings, equipments, instruments, furniture, books, periodicals, walls, windows panels, vehicles etc., will be viewed very seriously.
- 1.2.16 Recording of any electronic images in the form of photographs, audio or video recording of any person without the person's knowledge; when such recording is likely to cause injury, distress, or damage the reputation of such person; is prohibited in any part of the College and hostel premises. The storing, sharing or distributing of such unauthorized records by any means is also prohibited.
- 1.2.17 Use of mobile phones and head phones during college hours is prohibited.
- 1.2.18 As per the rules and regulations of the Dr. D.Y. Patil Vidyapeeth, Pimpri, Pune, 80% attendance in a subject for appearing in the examination is compulsory inclusive of attendance in non-lecture teaching i.e. seminars, group discussion, tutorials, demonstrations, practical's, hospital (tertiary, secondary, primary) posting & bedside clinics etc.
- 1.2.19 The Students must present in proper dress code with apron/ lab coat, name badge and identity card on all week days /working days and during clinical duties.
- 1.2.20 Admission of the student will be cancelled at any point of time in case of;
 - 1.2.20.1 Not submitting the required documents on time.
 - 1.2.20.2 Failing to fulfill required eligibility criteria of the program.
 - 1.2.20.3 Submission of fake or incorrect documents.
 - 1.2.20.4 Admission gained by resorting to fraudulent means, illegal gratification or any unfair practice detected at any stage during the entire program.
 - 1.2.20.5 Not paying the stipulated fees on time.

1.3 Prohibition of Ragging:

- 1.3.1 Ragging in any form is strictly prohibited in the campus and outside. The UGC Regulations on "Curbing the Menace of Ragging in Higher Educational Institutions, 2009" (as amended) and the MCI (Prevention and Prohibiting Ragging in Medical Colleges/ Institutions) Regulations

2009, and DCI Regulations on Curbing the Menace of Ragging in Dental Colleges, 2009 shall be applicable to all students of the Vidyapeeth.

1.3.2 It is mandatory to fill the online Anti Ragging undertaking, by every student at the time of the admission and on commencement of every academic year.

1.3.3 Smoking or consumption of alcoholic beverages, or use of banned materials inside the College, Hostel and Campus is strictly prohibited.. Any violation on the part of the students will be viewed very seriously and they will be suspended from the college immediately pending enquiry and in the case of hostellers, they will be expelled from the hostels immediately. Such students will not be permitted to attend classes/sit for examinations and enter the campus without the written permission of the competent Authority.

Grievance Redressal Cell

A Grievance is a documented manifestation of dissatisfaction of a student /staff. Such dissatisfaction, if left unaddressed and unresolved, could endanger the lifeline of the DPU and erode its image. It is therefore expected that all employees shall devote attention, time and effort at resolving the Grievances of the students and staff within the framework of the DPU's guidelines and the terms of the policy.

The objectives of the Grievance redressal policy are:

- a) To develop an organisational framework to resolve grievance of students and staff.
- b) To provide the Students and staff access to immediate, hassle free recourse to have their Grievances redressed.
- c) To enlighten the students and staff on their duties and responsibilities.
- d) To establish structured interactions with students and staff to elicit information, academic and administrative process on their expectations.
- e) To identify systemic flaws in the design and administration of various general insurance products and to seek solution thereon.
- f) To institute a monitoring cell to oversee the functioning of the Grievance Redressal Policy.

Caste Discrimination Committee

Objectives of the Committee

- 1) To oppose casteism among the students and faculty
- 2) To prevent caste based discrimination among student and faculty
- 3) To inform faculty members to resist from any act of discrimination

Barrier Free Disability Committee

Objectives of Barrier Free Committee

- 1) To inform facilities available for disable students
- 2) To maintain harmony among students

1.4 Attendance & Progress:

Each student shall always maintain decency, decorum and good

conduct, besides keeping steady progress and required attendance. The conduct/ academic performance/ attendance of each student shall be reviewed periodically and appropriate action, including detaining from appearing for the Vidyapeeth Exam/ expelling from the Hostel or College, as the case may be, will be taken against the erring student. The students shall abide by such decision of the authorities of the Institution/Vidyapeeth.

1.5 Payment of Tuition and other Fees

1.5.1 On admission of candidates to the first year of the course of study, all the notified fees viz., annual tuition fee, registration and eligibility fee, health insurance, caution deposit, hostel and mess fee, etc., as applicable, should be paid on or before the prescribed date without fail. Any delay will attract penalty as specified. If any candidate fails to remit tuition fee and other fees within the last date as notified, he/she will forfeit his/her admission to the course concerned.

1.5.2 In respect of subsequent year(s) of study, tuition fee and other specified fees shall be paid on or before the date as notified to the parents/students and on the Notice Board of the Institution /College concerned. Late payment, if any, will attract penalty as specified.

1.5.3 Similarly, examination fee, as prescribed and notified from time to time, shall be paid on or before the due date. If there is any delay, student has to pay penalty as specified. If any student fails to remit the examination fee even after lapse of the period specified for payment with penalty, such student will not be issued Hall Ticket for the Vidyapeeth examination(s)/debarred from appearing in the Vidyapeeth examination(s).

1.5.4 All fees, once paid to the Vidyapeeth account, will not be refunded or adjusted for any other purpose under any circumstances.

1.6 Rules relating to Vidyapeeth examinations:

1.6.1 The candidates appearing for the Vidyapeeth theory examinations shall be under the direct disciplinary control of the Centre Incharge. Possession of cell phone or any electronic device or incriminatory materials by a candidate or found copying from any device in the examination hall, is strictly prohibited.

1.6.2 Disciplinary action will be initiated if any candidate indulges in any malpractice (unfair means) as enumerated in the Vidyapeeth Examination Manual.

1.7 Rules for Hostel Students

All inmates of the Hostel shall observe following rules for smooth and efficient running of the hostel and for their comfortable stay

1.7.1 Only bonafide students of Vidyapeeth are eligible for admission to the hostels.

- 1.7.2 Students who fail to remit the Hostel fee even after a reminder in writing, shall vacate the hostel room allotted to them, forthwith.
- 1.7.3 No posters or pictures should be stuck inside and outside the room or anywhere around the premises of the hostel or College. Hostlers should avoid sticking bills and posters on the windows, doors and walls (except name strips on the room door). In case the room is found not in order, fine will be levied on the erring student.
- 1.7.4 Inmates should switch off fans and lights before leaving their rooms.
- 1.7.5 The inmates are advised to close the taps after use in order to avoid wastage of water.
- 1.7.6 Dining services will be provided only in the mess and there will be no room service.
- 1.7.7 Whenever any hosteller falls sick the same should be reported by him/her to the warden who will provide all necessary assistance to get appropriate treatment or medicines.
- 1.7.8 While going out of hostel the students should enter their name in the register & sign the same by mentioning proper reason.
- 1.7.9 To leave the hostel premises, permission of the Chief Warden is absolutely necessary. Students who want to stay overnight to visit their parents or guardians should approach the Chief Warden for permission. Permission will be granted only after obtaining written request from the parent/guardian duly signed by them, which will be duly entered in a register maintained in each block by Warden.
- 1.7.10 All rooms, corridors, toilets etc. must be kept clean and any student who violates the rule shall be expelled from hostel.
- 1.7.11 Hostel facility is provided with a view to help the student to pursue his/her studies in good environment and to facilitate/ promote his/her academic progress. A student who fails to keep up the congenial atmosphere and environment in the Hostel or to perform well and maintain academic progress shall not be allowed to use the hostel facility and shall vacate his/her room immediately on intimation from the Chief Warden/ Dean / Principal / Director of Faculties.

All students will be governed by the rules stated above & by those that will be framed from time to time during the academic year.

Failure on the part of the students to abide by the disciplinary rules will result in such punishment including expulsion from the College / Hostel as may be imposed by the Institution / Vidyapeeth / Head of the Institution.

The decision of the Institution/Vidyapeeth/Head of the Institution with regard to disciplinary cases shall be final and

all the students shall abide by such decisions.

1.8 Powers of Competent Authority (Dean/Principal/ Director at the Institute level)

The Competent authority may impose any one or more of the following punishment/s on the student found guilty of misconduct, indiscipline, in proportion thereof:

- 1.8.1 Warning/reprimand
- 1.8.2 Fine
- 1.8.3 Cancellation/withheld scholarship/award/prize/medal.
- 1.8.4 Expulsion from the Hostel.
- 1.8.5 Expulsion from the institution
- 1.8.6 Cancellation of the result of the student concerned in the examination of the Institution.
- 1.8.7 Temporary annulment from the Hostel/ Institution.
- 1.8.8 Rustication from the Institution.

1.9 Procedure for Inquiry

If the competent authority is satisfied that there is a prima facie case inflicting penalties, mentioned in clause No. 1.8, the authority shall make inquiry, in the following manner:

- 1.9.1 Due notice in writing shall be given to the student concerned about his alleged act of misconduct / indiscipline.
- 1.9.2 Student charged shall be required within 15 days of the notice to submit his/her written representation about such charge/s.
- 1.9.3 If the student fails to submit written representation within specified time limit, the inquiry may be held ex parte.
- 1.9.4 If the student charged desired to see the relevant documents, such of the documents, as are being taken into consideration for the purpose of proving the charge/s, may at the discretion of the inquiry authority, be shown to the student.
- 1.9.5 The student charged shall be required to produce documents, if any in support of his defense. The inquiry authority may admit relevant evidence / documents.
- 1.9.6 Inquiry Authority shall record findings on each implication of misconduct or indiscipline, and the reason for such finding and submit the report along with proceedings to the competent Authority
- 1.9.7 The competent Authority on the basis of findings, shall pass such orders as it deems fit.

The procedure prescribed above need not be followed, when the student charged admits the charges in writing.

1.10 Appeal

If the punishment/fine/rustication is imposed on a student by Dean/Principal/ Director, such a student shall be entitled to file an appeal before the Vice- Chancellor within thirty (30) days of the receipt of the order.

Allocation of Seats (Procedure & Definition)

1) General Category

Admissions to these category candidates shall be made on the basis of the inter-se merit of the candidates based on Entrance Test score.

2) NRI/ PIO/ FN Category

Candidates under this category shall have passed 12th Std. Examination (H.S.C. 10+2) from any stream as a passing subject. Admissions of candidates will be made on the basis of inter-se-merit in the qualifying examination of the applicants as determined by an admission committee appointed for the purpose by the competent authority. The candidate will be required to pay a processing fee of US \$200.

In case the seats which are marked for NRIs/ PIOs/ FNs are not filled by candidates of any of these subcategories, the Management shall fill the vacant seats from the candidates who have appeared for DPU-AIET and have applied for the seat separately in the prescribed form available in the Vidyapeeth Office and on the website of the Vidyapeeth & the Institute.

In this context, the bonafide NRIs, PIOs and Foreign Nationals are defined as follows: An NRI is a person who is "not a resident" or who is 'not ordinarily resident'. A person is treated as "not ordinarily resident" (I) If he / she has been resident in India for less than 182 days in the year preceding the date of application; or (If he/she has been in India for less than 365 days during the four years immediately preceding the date of application. A PIO is a person having foreign citizenship (except Pakistan and Bangladesh) within NRI status, but who holds a foreign passport at the time of application or at the time of consideration of admission and during the period of his/her study and whose one/ both parents or anyone/both grandparents(s) is/are (or was/were), citizen(s), of India by virtue of the provisions of the Constitution of India or Section 2(b) of the Citizenship Act 1955 (Act. No. 57 of 1955). An FN is a person having citizenship of a foreign country (or) country (other than India) and not having the status 'NRI' and/or 'PIO'.

Important

Under the NRI, PIO and FN categories, only the student who has studied and passed the qualifying examination from school and /or college located in foreign country (other than India) shall be considered. This will include the student studying in school and / or college situated in foreign country, even if the concerned school/college is affiliated to any Board of Secondary Education or a University in India., However, ward of NRI, PIO or FN, who is studying for the qualifying examination in school/college located in India, is excluded.

Teaching Staff List

Sr. No.	Name of the Teacher	Qualification	Designation	Teaching Experience
1	Dr.(Mrs.) Khurshid Jamadar	Ph.D Nursing	Professor cum Principal	25 yrs.
2	Dr.(Mrs.) Sadhana U.Adhyapak	Ph.D Nursing	Professor	24 yrs.
3	Dr.(Mrs.) Shweta S.Joshi	Ph.D Nursing	Professor	18 yrs.
4	Dr.(Mrs.) Nisha S.Naik	Ph.D Nursing	Professor	18 yrs.
5	Dr. (Ms.) Sucheta Yangad	Ph.D Nursing	Asso. Professor	22 yrs.
6	Dr.(Mrs.) Kavita Kelkar	Ph.D Nursing	Asso. Professor	15 yrs.
7	Mrs. D.Priya	M.Sc. Nursing	Asso. Professor	19 yrs
8	Mrs. Martha Raut	M.Sc. Nursing	Asso. Professor	25 yrs.
9	Ms. Vaishali L.Jagtap	M.Sc. Nursing	Asst. Professor	18 yrs.
10	Mrs. Jayabala Aghamkar	M.Sc. Nursing	Asst. Professor	28 yrs.
11	Mrs. Jasmin Shijo	M.Sc. Nursing	Asst. Professor	12 yrs.
12	Ms. Surekha Suryavanshi	M.Sc. Nursing	Asst. Professor	11 yrs.
13	Mr. Sanjay Sabde	M.Sc. Nursing	Asst. Professor	7 yrs.
14	Mrs. Ceena Bejoy	M.Sc. Nursing	Asst. Professor	7 yrs.
15	Mrs. Naziya Sutar	M.Sc. Nursing	Asst. Professor	9 yrs.
16	Ms. Shubhashree Dhir	M.Sc Nursing	Clinical Instructor	4 yrs
17	Ms. Sonal Dhobe	M.Sc Nursing	Clinical Instructor	2 yr.
18	Mrs. Jyotishree Mishra	M.Sc Nursing	Clinical Instructor	2 yr.
19	Mrs. Smita Jadhav (Tyson)	M.Sc Nursing	Clinical Instructor	3 yrs.
20	Ms. Seri Lollen	M.Sc Nursing	Clinical Instructor	2 yrs.
21	Ms. Vaishanavi A.Dhobale	M.Sc Nursing	Clinical Instructor	3 yrs.
22	Ms. Puja Saha	M.Sc Nursing	Clinical Instructor	1 yrs.
23	Mrs. Jayshree Ohal	M.Sc Nursing	Clinical Instructor	7 yrs.
24	Mrs. Abhigail Bhingare	P.B.B.Sc Nursing	Clinical Instructor	6 yrs.
25	Ms. Preeti Kunte	M.Sc Nursing	Clinical Instructor	1 yr.
26	Ms. Priti N. Kukade	P.B.B.Sc Nursing	Clinical Instructor	1 yr.
27	Mrs. Aboli Bathe	M.Sc Nursing	Clinical Instructor	5 yrs.
28	Ms. Siyona D.Patole	B.Sc Nursing	Clinical Instructor	1 yr.
29	Ms. Ruchita Bishal	B.Sc Nursing	Clinical Instructor	1 yr.
30	Ms. Pratiksha Sutar	B.Sc Nursing	Clinical Instructor	1 yr.
31	Ms. Pranali Waghmare	B.Sc Nursing	Clinical Instructor	1 yr.
32	Mr. Mhd.Kareemuddin Shaikh	B.Sc Nursing	Clinical Instructor	1 yr.
33	Mr. Sameer Tamboli	B.Sc Nursing	Clinical Instructor	1 yr.
34	Ms. Shraddha Pakhare	B.Sc Nursing	Clinical Instructor	1 yr.
35	Ms. Prajakta Jadhav	B.Sc Nursing	Clinical Instructor	1 yr.
36	Ms. Tripti Goarya	M.Sc Nursing	Clinical Instructor	4 yr.
37	Mrs. Lene Joseph	B.Sc Nursing	Clinical Instructor	1 yr.
38	Ms. Rekha Gaikwad	P.B.B.Sc Nursing	Clinical Instructor	4 yr.
39	Ms. Shraddha Waghmare	B.Sc Nursing	Clinical Instructor	1 yr.
40	Ms. Shivani Mate	B.Sc Nursing	Clinical Instructor	1 yr.
41	Mrs. Shweta Joshi	M.Sc Nursing	Clinical Instructor	1 yr.
42	Mrs. Saranya Sankar K.S	M.Sc Nursing	Clinical Instructor	1 yr.
43	Ms. Marcy Misal	M.Sc Nursing	Clinical Instructor	1 yr.
44	Ms. Rucha Patil	M.Sc Nursing	Clinical Instructor	1 yr.
45	Mrs. Yashi Shinde	B.Sc Nursing	Clinical Instructor	1 yr.
46	Mrs. Ashwini Kochewad	M.Sc Nursing	Clinical Instructor	1 yr.
47	Ms. Chhaya Godase	M.Sc Nursing	Clinical Instructor	1 yr.

Training and Placement Cell

"The Nursing Program at our institution offers comprehensive career guidance and placement support to our students. Our dedicated Career Guidance and Placement Team (CGPT) consists of the Director-Corporate Relations, Placement Officer, and student members, ensuring a smooth and successful placement process on campus. We collaborate with healthcare organizations, facilitating meetings, discussions, negotiations, invitations, and the final selection of students, creating a win-win situation for all stakeholders involved.

Placement Assistance:

We provide placement assistance to all our nursing students, helping them navigate the job market with confidence. Our CGPT offers personalized guidance, resume building, interview preparation, and networking opportunities to enhance their employability and maximize their career prospects.

Pre-Placement Talk:

The Pre-Placement Talk serves as a valuable platform for students to interact with potential employers and gain insights into their organizations. During these sessions, healthcare representatives deliver presentations to provide students with essential information about career opportunities, job roles, selection criteria, industry culture, and growth prospects. It helps students make informed decisions and align their career goals with the available opportunities.

Internship Program:

Our nursing program includes a structured internship component that allows students to gain practical experience and apply their theoretical knowledge in real-world healthcare settings. Under the guidance of experienced professionals, students are placed in various hospitals, clinics or community health centres, where they work on specific assignments and projects. The internship provides them with valuable hands-on training, professional exposure and a chance to develop essential clinical skills.

Training and Placement Cell

Final Placement Process:

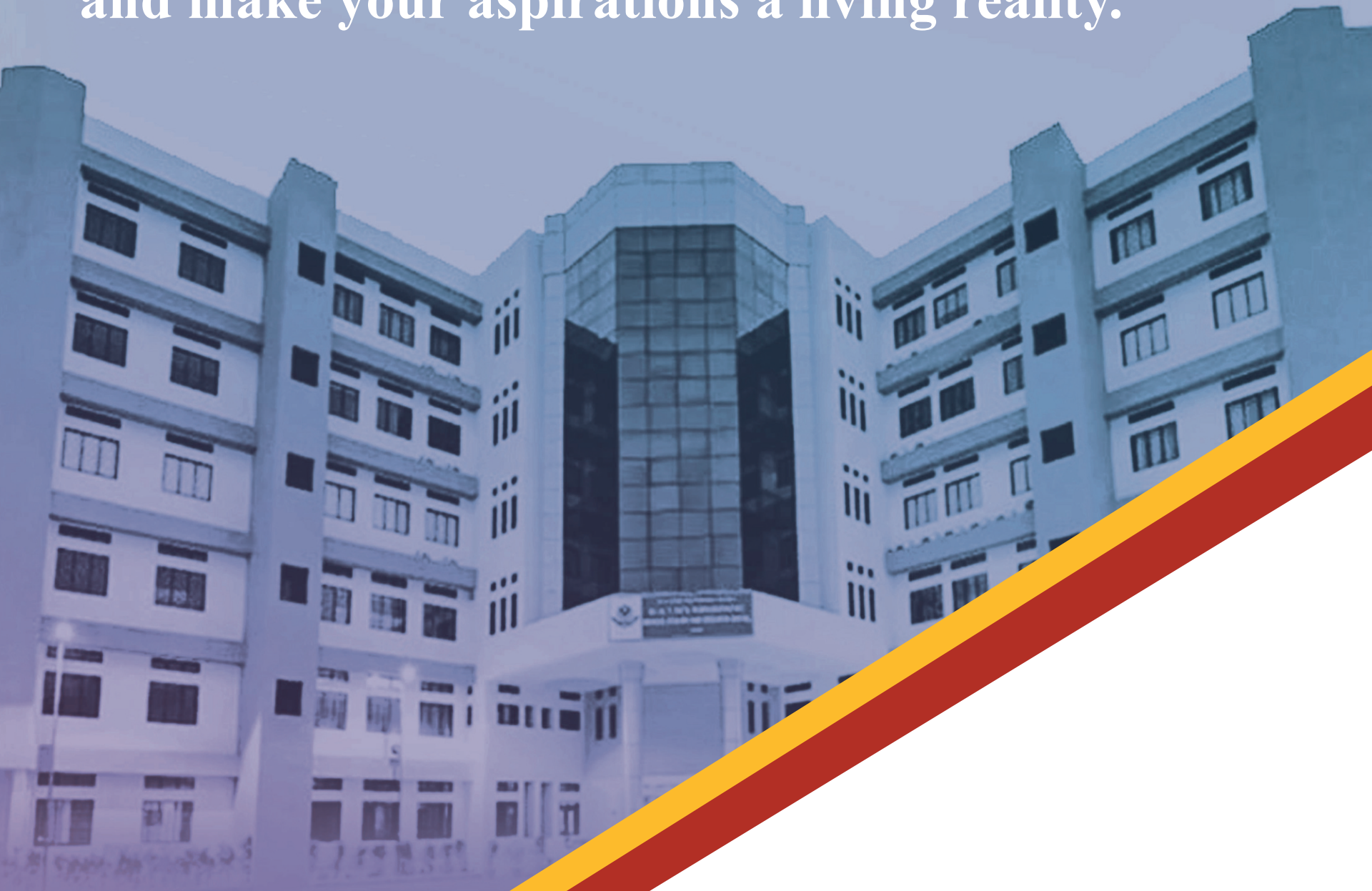
Our final placement process begins well in advance to ensure ample opportunities for our graduating nursing students. We connect with a wide range of healthcare organizations, hospitals, private clinics, and community health centers to facilitate the placement of our students. The CGPT actively engages with these organizations to understand their requirements and match them with our talented graduates. We strive to secure promising job offers and career prospects for our students, allowing them to embark on a successful professional journey in the field of nursing.

Industry Acceptance:

The quality and effectiveness of our nursing program are reflected in the industry's acceptance of our graduates. Our students have been successfully absorbed by renowned healthcare institutions, hospitals, clinics and research organizations. This industry recognition highlights the competence, skills and knowledge our students possess, making them valuable assets in the field of nursing.

At our institution, we are committed to equipping our nursing students with the necessary skills, knowledge and support to thrive in their careers. We provide comprehensive placement assistance, valuable industry connections and practical training opportunities to ensure their success in the dynamic and rewarding field of nursing.

Embrace the journey, seize the opportunities,
and make your aspirations a living reality.



DPU

Dr. D. Y. PATIL VIDYAPEETH, PUNE
(DEEMED TO BE UNIVERSITY)



DR. D. Y. PATIL VIDYAPEETH, PIMPRI, PUNE
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**START YOUR JOURNEY NOW AND SAVE
THE WAY TO A BRIGHTER TOMORROW.**