

**Online Proctor Based Entrance Test  
June - 2023**

**ADMISSION BROCHURE FOR 2023-24**

**Dr. D. Y. Patil  
College of Nursing**

**Pimpri, Pune-411 018.**

***For Admission Details Please Contact :***

**Tel: (020) 27805889/90 • Mob.:8149455999**

**E-mail : [info.nursing@dpu.edu.in](mailto:info.nursing@dpu.edu.in) • Website : [www.nursing.dpu.edu.in](http://www.nursing.dpu.edu.in)**

# DPU

**Dr. D. Y. PATIL VIDYAPEETH, PUNE**

**(Deemed to be University)**

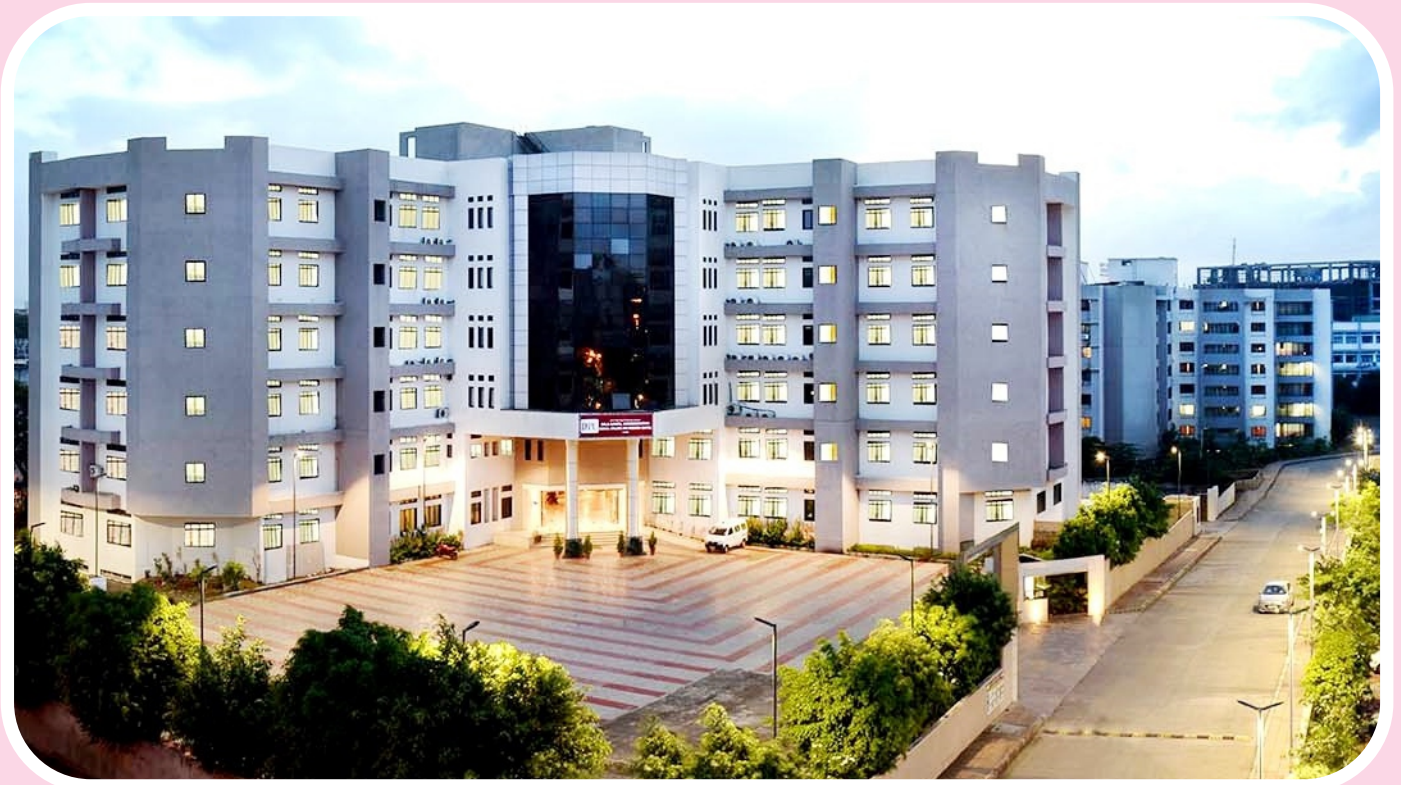
(Accredited (3<sup>rd</sup> Cycle) by NAAC with a CGPA of 3.64 on four point scale at 'A++' Grade)

NIRF-2022 : 41<sup>st</sup> (University), 3<sup>rd</sup> (Dental) and 17<sup>th</sup> (Medical) in India

(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**



**Information Brochure 2023-24**

All India Allied Health Online Proctor Based  
Entrance Test 2023 (AIAHET - 2023)

**for Admission to  
B. Sc. NURSING  
Programme**





राष्ट्रीय मूल्यांकन एवं प्रत्यायन परिषद  
विश्वविद्यालय अनुदान आयोग का स्वायत्त संस्थान  
**NATIONAL ASSESSMENT AND ACCREDITATION COUNCIL**  
An Autonomous Institution of the University Grants Commission

## *Certificate of Accreditation*

*The Executive Committee of the  
National Assessment and Accreditation Council  
is pleased to declare the  
Dr. D. Y. Patil Vidyapeeth  
(Deemed to be University u/s 3 of the UGC Act, 1956)  
Sant Tukaram Nagar, Pimpri, Dist. Pune, Maharashtra as  
Accredited  
with CGPA of 3.64 on four point scale  
at A<sup>++</sup> grade  
valid up to February 07, 2029*

*Date : February 08, 2022*



*S. C. Sene*  
Director



EC(SC)/92/3<sup>rd</sup> Cycle/MHUNGN10146

# Chancellor's Message



Dear Students,

It gives me immense pleasure to interact with you through this brochure. In today's competitive world, good education is not only a must, but also an opportunity to excel in different spheres of life. In my belief, education along with a sharp mind, capable of understanding and possessing a sense of being a responsible individual, is an antidote to ignorance. Keeping with these objectives, 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.

Accredited (3rd Cycle) by the National Assessment and Accreditation Council (NAAC) with a CGPA of 3.64 on four point scale at 'A++' Grade. We ensure high quality of education relevant to the needs of industry. I believe that you will enjoy your stay at our institution and leave fully empowered for a successful professional career, with confidence about the future. 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,

It is my privilege to share my views through this brochure, the best media to connect the young minds of the Nation. As aptly said by Robert Maynard Hutchins, “The objective of education is to prepare the young to educate themselves throughout their lives”.

In keeping with its mission of academic excellence, Dr. D. Y. Patil Vidyapeeth, Pune, (DPU) is always continuing its inexorable developmental activities, in 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.

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. (Mrs.) Bhagyashree P. 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. The Vidyapeeth has constituted APEX Committee for preparing vision and plan of action for implementing the provision made and NEP 2020 by UGC, accordingly course curriculum is designed.

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. All our hospitals viz. Medical, Dental, Ayurved 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, 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



# 1<sup>st</sup> Convocation 10<sup>th</sup> 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 Ramdev ji**  
*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)*





## 2<sup>nd</sup> Convocation 18<sup>th</sup> 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*



## 3<sup>rd</sup> Convocation 9<sup>th</sup> 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*





## 4<sup>th</sup> Convocation 14<sup>th</sup> 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*

## 5<sup>th</sup> Convocation 26<sup>th</sup> April, 2014



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



## 6<sup>th</sup> Convocation 26<sup>th</sup> 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*

## 7<sup>th</sup> Convocation 1<sup>st</sup> 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*



# 8<sup>th</sup> Convocation 8<sup>th</sup> 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**, *Shivayog 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*



# 9<sup>th</sup> Convocation 29<sup>th</sup> March, 2018



Felicitation of Chief Guest  
**Shri. M. Venkaiah Naidu,**  
*Hon'ble Vice President of India*



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



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



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  
**Dr. Pratapsinh G. Jadhav**  
*Chairman, Pudhari Publications Pvt. Ltd.,  
Kolhapur*



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



# 10<sup>th</sup> Convocation 13<sup>th</sup> April, 2019



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



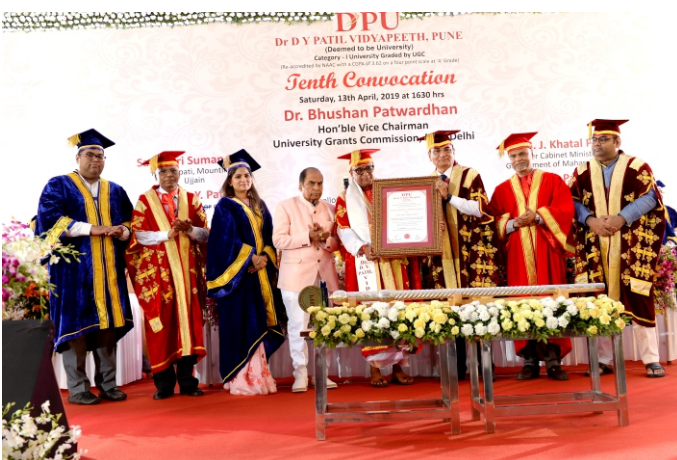
Members of Board of Management with  
Chief Guest **Dr. Bhushan Patwardhan**  
*Hon'ble Vice Chairman, University Grants Commission,  
New Delhi*



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



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



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



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

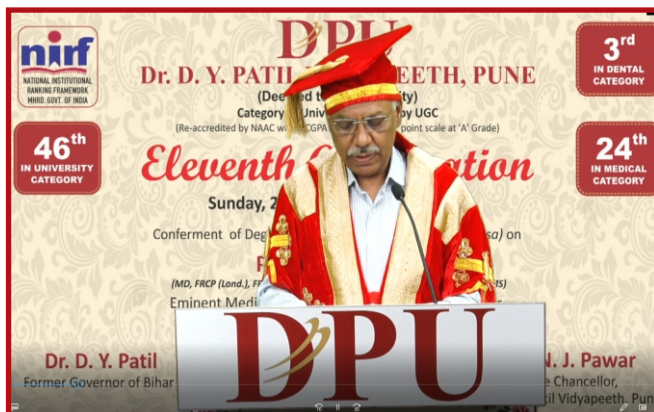


# 11<sup>th</sup> Convocation 28<sup>th</sup> June, 2020

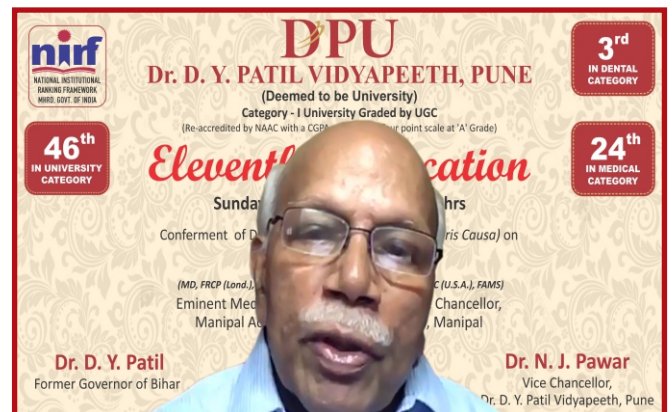
This year due to COVID 19 Pandemic situation all over the world, Dr. D. Y. Patil Vidyapeeth, Pune (Deemed to be University) had conducted its 11<sup>th</sup> Convocation virtually on Sunday, 28<sup>th</sup> June, 2020 at 4.00 p.m. Hon'ble Dr. P. D. Patil, Chancellor, Dr. D. Y. Patil Vidyapeeth, Pune 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.

## 12<sup>th</sup> Convocation 29<sup>th</sup> June, 2021

The Twelfth Convocation ceremony virtually (online) of Dr. D. Y. Patil Vidyapeeth, Pune was held on **Tuesday, 29<sup>th</sup> June 2021, at 12 noon** at the Dr. D. Y. Patil Vidyapeeth's Auditorium. The Chief Guest of the program was **Hon'ble Dr. Dhirendra 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 Narlikar** (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 honored with gold medals.



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



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



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



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



# 13<sup>th</sup> Convocation 20<sup>th</sup> May, 2022



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



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



Felicitation of  
**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



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



Felicitation of  
**Dr. Vedprakash Mishra**  
Pro Chancellor and Chief Advisor,  
Datta Meghe Institute of Medical Sciences,  
(Deemed to be University), Nagpur



## Dr. D. Y. Patil Vidyapeeth, Pune

Dr. D. Y. Patil Vidyapeeth, Pune was established in 2003. It is situated in Pimpri, in the city of Pune.

The city is steeped in cultural, educational and political history. Pune was the cultural capital of the Marathas and rightly it has earned the sobriquet as the 'Queen of the Deccan'. It is situated at the height of 575 meters above the sea level, on the Deccan plateau in the Sahyadri ranges. The city is surrounded by verdant hills and the pristine lakes. Due to the picturesque setting of the city coupled with its salubrious climate, it has become a home for many after their retirement! That is why the city is also known as the 'Pensioner's Paradise.'

The city has a rich legacy in education. It is called the "Oxford of the East," as it has the highest number of Colleges and Universities compared to any other city in India. About 25,000 foreign students from over 99 countries are pursuing their education in Pune.

It has a large number of reputed educational and research institutes, such as Savitribai Phule Pune University, Pune, Deccan College, College of Military Engineering (CME), Armed Forces Medical College (AFMC), Bhandarkar Oriental Research Institute, National Chemical Laboratory (NCL), National Defence Academy (NDA) National Center for Cell science (NCCS), National Institute of Virology (NIV), National AIDS Research Institute (NARI) and Information Technology park at Hinjewadi, etc.

Dr. D. Y. Patil Vidyapeeth, Pune is located at a distance of 13 km. from the Pune Railway Station and the Airport. The city is well connected to Mumbai and the entire country through rail, air and by road. The city also has an International airport!



Dagdusheth Ganpati

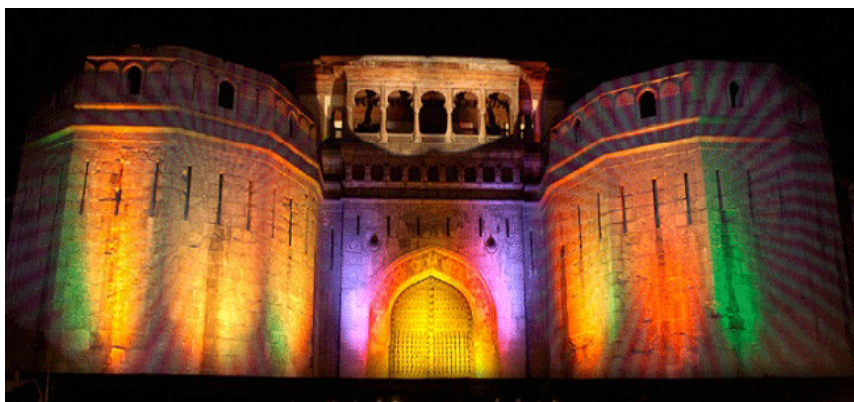


NCL



IISER, Pune

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.	



Shaniwarwada



NARI



## About Vidyapeeth

### Establishment:

Dr. D. Y. Patil Vidyapeeth, Pune was **granted Deemed-to-be University status** under **Section 3** of the **University Grants Commission Act, 1956** by the Government of India, Ministry of Human Resource Development on the recommendation of the University Grants Commission, New Delhi comprising of Dr. D. Y. Patil Medical College, Hospital and Research Centre, Pimpri, Pune vide their Notification No. F.9-39/2001- U.3 dated 11<sup>th</sup> January 2003.

Dr. D. Y. Patil Vidyapeeth, Pune (DPU) had a humble beginning with one institution under its fold. Over the last 20 years it has grown by leaps and bounds with the addition of 12 more professional institutions. Today the 13 institutions of Dr. D. Y. Patil Vidyapeeth, Pune have created a brand name “DPU” in the field of Medicine, Dentistry, Nursing, Physiotherapy, Optometry, Biotechnology, Management, Ayurved, Homeopathy, Design, Allied Health Sciences, Liberal Arts, Science & Technology and Online Learning. Dr. D. Y. Patil Vidyapeeth, Pune has state-of-the-art infrastructure and dedicated faculty over and above the respective council norms. All the programmes offered in these Constituent Units of the Vidyapeeth are duly recognized by the respective Councils such as NMC/DCI/INC/NCISM/NCH/AICTE/UGC/MSOTPT, etc.

### 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 2022** conducted by Ministry of Education, New Delhi, the Vidyapeeth has ranked **41<sup>st</sup>** in **University Category**, **3<sup>rd</sup>** in **Dental Category** and **17<sup>th</sup>** 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 **9<sup>th</sup> 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 Swachata Action plan conducted by MGNCRE under Ministry of Education, Govt. of India.
- Recognised 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 Commission, New Delhi** on 11<sup>th</sup> February 2021.
- All our hospitals viz Medical, Dental, Ayurved 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 **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.

### **Infrastructure & Learning Resources:**

- DPU has always endeavored to deliver quality education in a globally benchmarked learning environment through modern amphitheatre-styled air-conditioned classrooms, hi-tech & well-furnished laboratories with avant-garde equipment have been provided for both teaching and research.
- All the institutions have excellent library resources with a large number of books, periodicals and e-journals besides the latest e-resources like SCOPUS, EBSCOHOST, Elsevier Clinical Key, Elsevier Clinical Flex, J-Gate, etc.
- DPU has a strong IT infrastructure with AV studio, dedicated Data Centre and in-house Software Development Cell (SDC). The entire campus and classrooms are Wi-Fi enabled with a bandwidth of >2 GBPS internet connectivity.
- The hostels have all the facilities including TV room, Wi-Fi connectivity, recreation room, well-equipped gym, visitors' room, guest rooms, reading room, 24x7 security service, CCTV surveillance cameras, mess facilities, cafeteria and solar power heaters.

### **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 non-profit 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.

### **Memberships – National and International**

- 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

# 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 centre 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 recognised 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

## **Florence Nightingale : Mystic. Visionary, Healer (12 May 1820 - 13 August 1910)**

Nursing is an art; and if it is to be made an art, requires as exclusive a devotion as hard a preparation, as any painter's or sculptor's work; for what is having to do with dead canvas or cold marble, compared with having to do with living body; the temple of god's spirit? it is one of the fine arts; I had almost said, the finest of the fine arts. (Florence Nightingale, 1868)

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

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

Situated in Pimpri, the college was established in the year 2000 with a vision to impart nursing education to students. The spacious campus, fully equipped laboratories, lecture halls, auditorium and offices comply with the Indian Nursing Council norms. The college has the reputation of producing able graduate nurses who provide commendable services.

### **Courses run by the College**

Sr. No.	Courses	Duration	Intake Capacity
01	Ph.D. Nursing	6 Years	As per availability of guides
02	Master of Science (M.Sc.) Nursing	2 Years	20
03	Bachelor of Science (B.Sc.) Nursing	4 Years	100
04	P.B.B.Sc. (Nursing)	2 Years	30
05	M.Sc. in Nurse Practitioner Critical Care (N.P.C.C.)	2 Years	25
06	Critical Care Nursing	6 Months	10

### **Mission Statement**

- 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.

### **I) Vision Statement**

To Excel Nursing care in Education and Service through Research.

### **II) The college has future plans of starting:**

- Future plan of collaboration with Nord University, Norway.

### **III) Highlights of Dr. D. Y. Patil College of Nursing, Pimpri, Pune**

- International collaboration with Johns Hopkins University.
- MOU with NARI (National AIDS Research Institute)
- MRA (Mutual Recognition Agreement) with Govt. of India and Govt. of Singapore for placement of students.
- MoU with MKSSS (Maharshi Karve Stree Shikshan Sanstha)
- MoU with Nord University Norway
- MoU with Cipla Palliative Care Centre

### **Ideal Location**

- Spacious campus, with fully equipped laboratories, ICT - enabled lecture halls & auditorium.
- Excellent Central Library with latest reference books, journals, periodicals, e-books, e-journals, research databases such as Scopus, EBSCO-host, J-Gate, Swayam, NPTEL, DELNET etc.
- State-of-the-Art, Air-conditioned auditoriums with 1000 and 250 seating capacity.
- Well furnished Hostels and Staff quarters.
- Highly experienced & well qualified staffs as per Norms of Indian Nursing Council.
- Upgrading recent evaluation methods to evaluate students objectively.
- Arrangement of Seminars, Workshops, Refresher Courses for development of students and faculty.
- Research Grants are sponsored to encourage teachers and students for undertaking Research Projects.
- Extra - Curricular activities arrangement like Pulse Polio, Blood Donation & Observation of National Health Days to make the society aware about Public Health.
- Urban Community Health Centre.
- Rural Community Health Centre.



### 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 air-conditioned 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.

### 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.



■ Class Room



■ Staff Room



■ Conference Hall



■ Auditorium



■ Library



■ Central Library

## Philosophy

Dr. D. Y. Patil Vidyapeeth believes in systematic teaching, training and research in Modern Medical Sciences and uniformity in various courses in medical and Allied health sciences. The philosophy of the B. Sc. Nursing is incorporated by Dr. D. Y. Patil Vidyapeeth as part of Indian Nursing Council.

Indian Nursing Council believes that,

Health is a state of well-being that enables a person to lead a psychologically, socially & economically productive life. Health is a right of all the people. Individuals, families and communities have a responsibility towards maintaining their health.

Nursing contributes to the health services in vital and significant way in the health care delivery system. It recognizes national health goals and is committed to participate in the implementation of National Health policies and programmes. It aims at identifying health needs of the people, planning and providing quality care in collaboration with other health professionals and community groups.

Scope of nursing practice encompasses provision of promotive, preventive, curative and rehabilitative aspects of care to people across their life span in wide variety of health care settings. Practice of Nursing is based upon application of basic concepts and principles derived from the physical, biological, behavioral sciences, medicine and nursing.

Nursing is based on values of caring, and aims to help individuals to attain independence in self-care. It necessitates development of compassion and understanding of human behavior among its practitioners to provide care with respect and dignity and protect the rights of individuals and groups.

Undergraduate nursing program is broad based education within an academic framework, specifically directed to the development of critical thinking skills, competencies & standards required for practice of professional nursing and midwifery as envisaged in National Health Policy 2002.

The teachers have the responsibility to be role models and create learning environment that enables students to acquire inquiry driven, self-directed learning and foster an attitude of lifelong learning.

Under graduate nursing education program prepares its graduates to become exemplary citizen by adhering to code of ethics and professional conduct at all times in fulfilling personal, social and professional obligations so as to respond to national aspirations.

## Admission Requirements as per INC Norms

### Basic B.Sc. Nursing

1. The minimum age for admission shall be 17 years on or before 31st December 2023.
2. The minimum educational requirements shall be the passing of :  
A candidate should have passed in the subjects of Physics, Chemistry, Biology and English Individually and must have obtained a minimum of 45% of marks taken together in Physics, Chemistry and Biology at the qualifying examination i.e. (10+2). Furthermore, the candidates belonging to SC/ST or other backward classes, the marks obtained in Physics, Chemistry and Biology taken together in qualifying examination be 40% instead of 45% as stated above. English is compulsory subject in 10+2 for being eligible for admission to B.Sc. Nursing.
3. Candidate shall be medically fit.
4. Entrance / Selection Test: Selections of the candidates should be based on the merit in the entrance examination conducted by Vidyapeeth. Entrance test shall comprise of:

a) Aptitude for Nursing	20 marks
b) Physics	20 marks
c) Chemistry	20 marks
d) Biology	20 marks
e) English	20 marks

Minimum qualifying marks for entrance test shall be 50% marks.
5. Duration: Duration of the course shall be four years (Eight Semester).



## Aims

The aim of the undergraduate nursing programme is to :

- Prepare graduates to assume responsibilities as professional, competent nurses and midwives in providing promotive, preventive, curative and rehabilitative services.
- Prepare nurses who can take independent decisions in nursing situations, protect the rights and facilitate individuals and groups in pursuit of health, function in the hospital, community nursing services and conduct research studies in the areas of nursing practice. They are also expected to assume the role of teacher, supervisor and Manager in a clinical / public health setting.

## Objectives

On completion of the four year B.Sc. Nursing Programme the graduate will be able to

1. Apply knowledge from physical, biological and behavioural sciences medicine including alternative systems and nursing in providing nursing care to individuals, families and communities.
2. Demonstrate understanding of life style and other factors, which effect health, individuals and groups.
3. Provide nursing care based on steps of nursing process in collaboration with the individuals & groups.
4. Demonstrate critical thinking skill in making decisions in all situations in order to provide quality care.
5. Utilize the latest trends and technology in providing health care.
6. Provide promotive, preventive and restorative health services in line with national health policies and programmes.
7. Practice within the framework of code of ethics and professional conduct and acceptable standards of practice within the legal boundaries.
8. Communicate effectively with individuals and groups and members of the health team in order to promote effective interpersonal relationships and teamwork.
9. Demonstrate skills in teaching to individuals and groups in clinical / community health settings.
10. Participate effectively as members of the health team in health care delivery system.
11. Demonstrate leadership and managerial skills in clinical / community health settings.
12. Conduct need based research studies in various settings and utilize the research findings to improve the quality of care.
13. Demonstrate awareness, interest and contribute towards advancement of self and of the profession.

## Extra Curricular Activities:

NSS Activities, Social Gathering, Inter-Collegiate Sports Competitions, Seminars and lectures help to broaden the scope of learning and provide a podium to display various skills and talents.



Prize Distribution



Sport

## Dr. D. Y. Patil College of Nursing, Pimpri, Pune-18

### Teaching Staff List

S.No.	Name of the Staff	Qualification	Designation	Teaching Experience
1	Dr. (Mrs.) Khurshid Jamadar	Ph.D Nursing	Professor cum Principal	24 yrs.
2	Dr. (Mrs.) Sadhana U.Adhyapak	Ph.D Nursing	Professor	23 yrs.
3	Dr. (Mrs.) Shweta S.Joshi	Ph.D Nursing	Professor	17 yrs.
4	Dr. (Mrs.) Nisha S.Naik	Ph.D Nursing	Professor	17 yrs.
5	Dr. (Mrs.) Rupali M.Salvi	Ph.D Nursing	Professor	26 yrs.
6	Dr. Sucheta Yangad	Ph.D Nursing	Asso. Professor	21 yrs.
7	Dr. (Mrs.) Kavita Kelkar	Ph.D Nursing	Asso. Professor	15 yrs.
8	Mrs. D. Priya	M.Sc. Nursing	Asso. Professor	17 yrs
9	Mrs. Martha Raut	M.Sc. Nursing	Asso. Professor	24 yrs.
10	Ms. Vaishali L. Jagtap	M.Sc. Nursing	Asst. Professor	17 yrs.
11	Mrs. Jayabala Aghamkar	M.Sc. Nursing	Asst. Professor	29 yrs.
12	Mrs. Jasmin Shijo	M.Sc. Nursing	Asst. Professor	11 yrs.
13	Mrs. Shahin Shikalgar	M.Sc. Nursing	Asst. Professor	12 yrs.
14	Ms. Surekha Suryavanshi	M.Sc. Nursing	Asst. Professor	10 yrs.
15	Mrs. Naziya Sutar	M.Sc. Nursing	Asst. Professor	8 yrs.
16	Mr. Sanjay Sabde	M.Sc. Nursing	Clinical Instructor	6 yrs.
17	Mrs. Ceena Bejoy	M.Sc. Nursing	Clinical Instructor	6 yrs.
18	Ms. Shubhashree Dhir	M.Sc. Nursing	Clinical Instructor	3 yrs.
19	Ms. Sonal Dhobe	M.Sc. Nursing	Clinical Instructor	1 yr.
20	Mrs. Jyotishree Mishra	M.Sc. Nursing	Clinical Instructor	1 yr.
21	Ms. Namrata Thakare	M.Sc. Nursing	Clinical Instructor	6 yrs.
22	Ms. Nikita Kavitkar	M.Sc. Nursing	Clinical Instructor	6 yrs.
23	Ms. Madhuri Rathod	M.Sc. Nursing	Clinical Instructor	5 yrs.
24	Mrs. Sarah Mane	M.Sc. Nursing	Clinical Instructor	5 yrs
25	Mrs. Smita Jadhav (Tyson)	M.Sc. Nursing	Clinical Instructor	2 yrs.
26	Ms. Seri Lollen	M.Sc. Nursing	Clinical Instructor	1 yrs.
27	Ms. Vaishnavi A. Dhobale	M.Sc. Nursing	Clinical Instructor	2 yrs.
28	Ms. Puja Saha	M.Sc. Nursing	Clinical Instructor	1 yrs.
29	Mrs. Jayshree Ohal	M.Sc. Nursing	Clinical Instructor	6 yrs.
30	Ms. Preeti Kunte	M.Sc. Nursing	Clinical Instructor	1 yr.
31	Mrs. Abhigail Bhingare	P.B.B.Sc. Nursing	Clinical Instructor	5 yrs.
32	Ms. Priti N. Kukade	P.B.B.Sc. Nursing	Clinical Instructor	1 yr.
33	Mrs. Aboli Bathe	B.Sc. Nursing	Clinical Instructor	4 yrs.
34	Mr. Tushar Thorat	B.Sc. Nursing	Clinical Instructor	1 yr.
35	Ms. Sweety Deb	B.Sc. Nursing	Clinical Instructor	1 yr.
36	Ms. Siyona D. Patole	B.Sc. Nursing	Clinical Instructor	1 yrs.
37	Mr. Pavitrakumar Kathale	B.Sc. Nursing	Clinical Instructor	1 yr.
38	Ms. Ruchita Bishal	B.Sc. Nursing	Clinical Instructor	1 yr.
39	Ms. Pratiksha Sutar	B.Sc. Nursing	Clinical Instructor	1 yr.
40	Ms. Prajakta Jadhav	B.Sc. Nursing	Clinical Instructor	1 yr.
41	Ms. Pranali Waghmare	B.Sc. Nursing	Clinical Instructor	1 yr.
42	Mr. Mhd.Kareemuddin Shaikh	B.Sc. Nursing	Clinical Instructor	1 yr.
43	Mr. Sameer Tamboli	B.Sc. Nursing	Clinical Instructor	1 yr.
44	Ms. Shraddha Pakhare	B.Sc. Nursing	Clinical Instructor	1 yr.

### Category wise Salary Pattern for the Academic Positions

S.No.	Designation	Pay Scale
1	Assistant Professor	PB - 15600 - 39100 AGP - 6000 / 7000 / 8000
2	Associate Professor	PB - 37400 - 67000 AGP - 9000
3	Professor	PB - 37400 - 67000 AGP - 10000

## 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.

### 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 the Warden.

1.7.10 All rooms, corridors, toilets etc. must be kept clean and any student who violates the rule shall be expelled from the 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 exparte.
- 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.

# Calendar of Events for Online Proctor Based AIAHET- 2023

## Admission to B. Sc. Nursing Programme

1	Processing Fee	:	Rs.300/-				
2	Last date for submitting the application form to- Dr. D. Y. Patil Vidyapeeth, Pimpri, Pune for Online Proctor Based All India Allied Health Entrance Test -2023 (AIAHET-2023)	:	<ul style="list-style-type: none"> <li>• Without late fee :15/06/2023 (Thursday) Until 5.00 p.m. (Test Fee Rs. 750/-) Total Rs. - 1050/-</li> <li>• With late fee : 22/06/2023 (Thursday) Until 5.00 p.m. (Total Rs. 1000/-) (Total Rs. - 1300/-)</li> </ul>				
3	Admit cards to candidates who are considered provisionally eligible for Online Proctor Based AIAHET - 2023	:	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 AIAHET - 2023				
4	Day, Date & Time of Online Proctor Based AIAHET - 2023	:	<b>Sunday, 25/06/2023</b> <b>From 11.00 a.m. to 12.30 p.m.</b>				
5	Declaration of Result	:	<b>Will be notified on the Vidyapeeth Website</b>				
6	Schedule of Counseling	:	<b>Will be notified on the Vidyapeeth Website</b>				
7	Venue of admission sessions	:	Dr. D. Y. Patil College of Nursing, Pimpri, Pune - 411 018				
8	College to open on	:	<b>Will be Displayed on Vidyapeeth Website</b>				
9	B.Sc. Nursing Fee Structure	:	<table border="1" style="width: 100%; text-align: center;"> <tr> <td><b>Total Fees in Rs.</b></td> <td><b>NRI Fees</b></td> </tr> <tr> <td><b>₹ 1,45,000/-</b></td> <td><b>US \$ 5000</b></td> </tr> </table>	<b>Total Fees in Rs.</b>	<b>NRI Fees</b>	<b>₹ 1,45,000/-</b>	<b>US \$ 5000</b>
<b>Total Fees in Rs.</b>	<b>NRI Fees</b>						
<b>₹ 1,45,000/-</b>	<b>US \$ 5000</b>						

**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](http://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 India Entrance Test on website: [www.dpu.edu.in](http://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.



## Infrastructure

- Highly experienced and well-qualified staff as per the stipulation of Indian Nursing Council.
- Adequate space for various student activities.
- Well – stocked Libraries with latest reference books and journals.
- Modern amenities including laboratories, lecture halls, auditorium and offices as per the Indian Nursing Council norms.
- Facilities for comprehensive nursing care in all specialities are available in parent hospital.

## Academic Activities

- Alumni Association was established in the year 2007 namely as 'DYP Seva Alumni'.
- As per Indian Nursing Council, New Delhi syllabus students do get exposure to various high tech hospitals, institutions for field visits i.e. Banglur, Mehsur 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 news papers.
- Students perform street plays and puppet shows in community 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 visit to NARI was arranged.

## Students 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. 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. Every year students celebrate International Nurses Week on the occasion of Birthday of Ms. Florence Nightingale, founder of Nursing Profession on 12th 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. 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 researchers are developed through the college.



TNAI QUIZ Competition, Mumbai

## 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 Allied Health Entrance Test 2023 (AIAHET-2023) 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 10<sup>th</sup> Standard.
2. Board / Passing Certificate 10<sup>th</sup> Standard.
3. Statement of Marks 12<sup>th</sup> Standard.
4. Board / Passing Certificate 12<sup>th</sup> 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.

## Lamp Lighting



## Diwali Celebration



## Christmas Celebration





# Admission Procedure as per INC Norms

## 1. Introduction

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 Allied Health Entrance Test 2023 (AIAHET-2023) conducted by this Vidyapeeth.

## 2. 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

NRI - Non Resident Indian; PIO - Person of Indian Origin; FN - Foreign National

Reservation of seats may be introduced in accordance with directives of the Government of India for Universities established under Section 3 of the University Grants Commission Act, 1956, if such directives are issued subsequent to the publication of this brochure.

## 3. Procedure and Definitions

### General Category :

Admissions under this category shall be made on the basis of the inter-se merit of the candidates qualified at AIAHET-2023.

### NRI/PIO/FN Category :

Candidate under this category is not required to appear for AIAHET-2023. Admissions will be made on the basis of inter-se merit as determined by admission committee appointed for the purpose by the Competent authority.

The candidate will be required to pay processing fee of U.S. \$ 200.

In case any seat remarked for NRI / PIO / FNs is not filled in by the candidates of any of these sub-categories, such vacant seat(s) shall be filled in from the candidate(s) who has / have cleared the AIAHET- 2023.

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 (ii) 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 sending application or at the time of consideration for admission and during the period of his study for courses and whose one / both parents or anyone / both grand parents is (or was) are (or were), citizen(s), of India by virtue of the provisions of the Constitution of India or Section 2(b) of Citizenship Act 1955 (Act. No. 57 of 1955).

An FN is a person having citizenship of a foreign country (any country other than India) and not having the status “NRI” and / or “PIO”.

## 4. Rules for Selection and Admission

The admission to B.Sc. Nursing course in Dr. D.Y. Patil College of Nursing, a constituent college of the Vidyapeeth, shall be done as per the relevant Rules and bye laws of the Vidyapeeth. The competent Authority has established a coordination committee for conduct of AIAHET- 2023 and Selection and Admission process.

### Important

Under the NRI, PIO and FN categories, only those students who have studied and passed the qualifying examination from school and / or colleges located in foreign countries (all countries other than India) shall be considered. This will include the students studying in schools and colleges situated in the foreign countries, even if the concerned school/ college is affiliated to any Board of Secondary Education or a University in India. However, wards of NRIs, PIOs or FNs, who are studying for the qualifying examination in schools located in India, are excluded.

## 5. 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 AIAHET -2023.

## 6. Nationality and Age

The candidate, seeking to appear at the AIAHET-2023 shall be an Indian national and shall have completed 17 years of the age on or before 31<sup>st</sup> December 2023.

## 7. Qualifications (B.Sc. Nursing)

- 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 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 AIAHET -2023 shall also be considered eligible to appear for AIAHET -2023 provided he/she has offered the above mentioned subjects at the said qualifying examinations.

## 8. 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.

## 9. Application Procedure

The candidate is advised not to submit the application form for AIAHET-2023, 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 1 and 2, 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 AIAHET-2023.

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

## 10. Instructions for Applying Online

- 10.1 Visit <http://admissions.dpu.edu.in> to apply online.
- 10.2 Fill in your basic details and click on the Apply Now button.
- 10.3 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.
- 10.4 Fill the application form completely and upload all the required documents.
- 10.5 Make the fee payment online.
- 10.6 After completion of entire form with payment, click on 'Submit' button. Your admission form will get submitted.
- 10.7 After the successful payment of the fees, you will not be able to make any changes in the Application Form.
- 10.8 On the dashboard, two links for printing Receipt and Application Form will be available. Take printout of both the documents for your reference.
- 10.9 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.
- 10.10 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.



## 11. Issue of Admit cards

- 11.1. All the candidates who have submitted the online application form, are required to download the Admit Card online two weeks before the day of Entrance Test. The admit card will indicate the seat number and the examination centre (with its address) allotted to the candidate.
- 11.2. The candidate shall not mutilate the admit card or change any entry made therein after it has been authenticated by the Vidyapeeth authorities.

## 12. Mode of the test

The test consists of one question paper of 100 marks. The question paper consists of one hundred objective-type Multiple Choice Questions (MCQs), 25 each on Physics, Chemistry, Botany and Zoology. The duration of the test is 1½ hours.

## 13. Merit List

- 13.1 The Vidyapeeth shall prepare a merit list of the candidates who have appeared for AIAHET - 2023 in accordance with the total marks obtained by them in Physics, Chemistry, Botany and Zoology taken together. The candidates shall be called for admission as per their ranking in this list.
- 13.2 The merit list will be displayed on the Vidyapeeth website:www.dpu.edu.in However the reasonable number of qualified candidates in the merit list will be called for counseling and on-the-spot admission session. It may happen in case of some candidates that all the available seats will be filled in before their turn comes. The admissions process stops once the number of seats available is filled in. There shall be no verification of marks or reassessment of papers of AIAHET-2023.
- 13.3 **Tie-breakers :** In case more than one candidate have obtained equal marks at the AIAHET-2023, the following procedure shall be adopted for deciding inter-se merit:

**First level:** A candidate with higher marks in Biology at the AIAHET-2023 shall be preferred. If the tie till persists,

**Second level:** A candidate with higher marks in Chemistry at the AIAHET-2023 shall be preferred. If the tie still persists,

**Third level:** A candidate with higher percentage of aggregate marks at the HSC (or equivalent) examination shall be preferred. If the tie still persists,

**Fourth level:** A candidate with higher percentage of aggregate marks at SSC examination shall be preferred.

## 14. Admission Session

- 14.1 The admission sessions will be conducted through online / offline counseling by the **Dr. D. Y. Patil College of Nursing, Pimpri, Pune-18**, as per the schedule. Failure to report for admission on the scheduled date and time shall result in instantaneous cancellation of the claim of the candidate to the seat. It shall be the candidate's responsibility to ascertain the result of AIAHET-2023.
- 14.2 Only the candidate and one of his/her parents/guardian shall be allowed into the admission hall. The candidates shall be called in, in the order of their ranking in the merit list.
- 14.3 The candidate should note that appearance at AIAHET-2023 and inclusions of name in the merit list do not necessarily mean that he/she shall get admission to the course. His/her admission to the course shall depend upon the availability of seat at the time of his/her turn for admission.
- 14.4 At the time of reporting for the admission, the candidate shall produce the documents (original and two sets of photocopies) and an affidavit as indicated in the Vidyapeeth letter for counseling / Vidyapeeth website. If the candidate is admitted to the course, these documents shall be retained by the University till he / she completes the course. If the candidate fails to produce all or any of these documents, his/her claim for a seat shall instantaneously stand forfeited.
- 14.5 The selected candidate shall be required to pay the entire amount of annual fee by NEFT / RTGS / Demand Draft in the name of '**The Principal, Dr. D. Y. Patil College of Nursing, Pune**' and **eligibility fee** shall be in the name of '**The Registrar, Dr. D. Y. Patil Vidyapeeth, Pune**' payable at Pune. In case the candidate fails to pay the entire amount of fees, he / she shall lose his / her claim for admission to that seat. Separate NEFT / RTGS / D. D. for Vidyapeeth Eligibility fees be brought, while attending the counseling and admission session.
- 14.6 If any candidate finds it impossible to be physically present for the admission session due to unavoidable circumstances, he/she may authorise any other responsible individual to represent him/her for admission session. This representative must carry with him/her a Letter of Authorisation, in the format, available on the University website, as well as all the documents required. If the candidate or his/her representative fails to report for the admission session on the date and time mentioned in the schedule of admission, his/her claim for admission to the course shall stand forfeited.
- 14.7 Admissions made at the admission sessions are provisional, subject to verification of eligibility by the Vidyapeeth.

## 15. Waiting List

- 15.1 A waiting list for admission to the course shall be prepared and notified on the Vidyapeeth website. The candidate, who desires to have his/her name included in the waiting list, shall submit the application for inclusion. If no such application, in writing, is submitted during the interview, the candidate's name shall not be included in the waiting list.

15.2 The seat which becomes vacant during the admission session, shall be kept vacant. The waiting list of the course shall become operative from 1<sup>st</sup> August 2023 onwards and the candidate(s) in the waiting list shall be offered seats as per availability of seat(s). The waiting list shall be operative till all the vacant seat(s) are filled in or till 30<sup>th</sup> September 2023 (cut-off date), whichever is earlier.

#### 16. 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

#### The Annual fee shall be increased by 3% each years

(Note : Annual Fee includes Tuition Fee, Development Fee & Other Fee)

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

#### University Eligibility & Registration Fee (One-time Fee) non refundable.

#### The Annual fee shall be increased by 3% each years

(Note : Annual Fee includes Tuition Fee, Development Fee & Other Fee)

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

#### University Eligibility & Registration Fee (One-time Fee) non refundable.

15% (Fifteen Percent) of the Annual Fee, payable for the first year only, shall be paid by the student separately at the time of filling in the Eligibility Application, as University Eligibility & Registration Fee. This fee shall be paid by a Demand Draft (DD) Drawn in favour of “**The Registrar, Dr. D. Y. Patil Vidyapeeth, Pune**” payable at Pune.

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

#### University Examination Fee

In addition to the above fees the student shall pay the Vidyapeeth Examination Fee as prescribed by the University from time to time. Other conditions and formalities shall be as per the Rules of the University.

#### 17. Rules for cancellation of an Admission and Refund of Fees:

- 17.1 Admission to the course can be cancelled at the request of the student, on submission of an application, within time.
- 17.2 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 as per rules notified by the Vidyapeeth.

#### 18. Hostel Accommodation

Hostel with Mess Facility are available.

Hostel Fees III Seater Non AC with mess will be notified on the Vidyapeeth Website: [www.dpu.edu.in](http://www.dpu.edu.in).

#### 19. Ragging

As per the recent UGC Regulations, the affidavits to be filed by the Student and their parent about the anti-ragging regulations of UGC, these affidavits need not be on stamp paper nor need to be registered. On the Contrary they should be submitted by the admitted students by submitting these affidavits on-line. **As per UGC regulations mandatory affidavits should be submitted by all old and fresh students and parents / guardians on the UGC website - [www.antiragging.in](http://www.antiragging.in) display the step by step guide on "How to fill an online anti ragging undertaking by the student and parent / guardian".**

#### 20. Disputes:

Difference of opinion and any dispute arising in the interpretation and implementation of the clauses in this brochure, if any, shall be referred to the Vice-Chancellor of Dr. D. Y. Patil Vidyapeeth, Pimpri, Pune and his decision shall be final and binding on all the concerned.

#### 21. Court Jurisdiction:

Any legal dispute arising out of the admission procedure of the course and refund of fees of the Vidyapeeth shall be under Pune jurisdiction only.



## Schedule & Test Design

The AIAHET-2023 will consist of one question paper of 100 marks.

There is no choice among the questions i.e. all questions have to be answered. Those candidates appearing for the test will be provided with one single OMR (Optical Mark Reader) answer sheet. At the end of paper/session student will handover the OMR Answer sheet and Question Booklet to the Invigilator.

The candidate will be required to mark the correct answer by darkening the corresponding circle against the serial number of the question, in the answer sheet with **black** ballpoint pen only. Out of four circles provided for selection of answer against a question, the candidate should fill up one circle only. Each correct answer will be given mark/s.

There shall be no negative marking for wrong answer. Scratching, overwriting, tick mark and multiple answers will be considered as wrong answer and no marks will be allotted to them.

The candidates who are appearing for the qualifying examination i.e. HSC or equivalent in February / March –2023 are also eligible to apply for AIAHET-2023, provided they must fulfill the eligibility conditions.

The eligibility conditions may vary in accordance with Judicial Pronouncements and orders issued by appropriate Authorities from time to time.

## Scheme Of Entrance Test

- 1. Duration** : One paper of 1 ½ hours
- 2. Marks** : Maximum marks: 100
- 3. Questions** : 100 objective type Multiple Choice questions (MCQs). Each MCQ will have four answer options and a single best response
- 4. Negative Marking** : There will be no negative marking.
- 5. Standard (level) of Test** : HSC examination standards.
- 6. Paper** : Paper comprising of questions from subjects of Aptitude for Nursing, Physics, Chemistry, Biology (Botany and Zoology) and English 20 marks each.

## VISITORS



# SYLLABUS FOR AIAHET-2023 (ANNEXURE – I)

## According to 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-planner 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 reassure, 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 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 lane 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 (inqualitative 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 enegytics .

## 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, parthenocary, 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

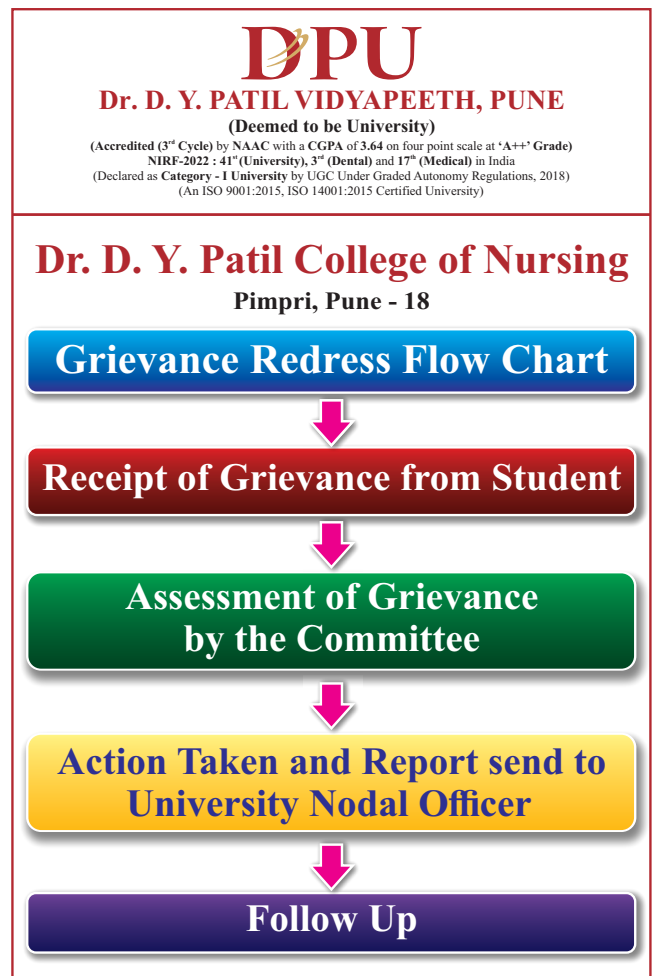
### WRITING SKILLS

- Planning, Sutlining
- Grammar
- Clarity

## APTITUDE TEST IN NURSING

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

 <b>Dr. D. Y. PATIL VIDYAPEETH, PUNE</b> (Deemed to be University) <small>(Accredited (3<sup>rd</sup> Cycle) by NAAC with a CGPA of 3.64 on four point scale at 'A++' Grade) NIRF-2022 : 41<sup>st</sup> (University), 3<sup>rd</sup> (Dental) and 17<sup>th</sup> (Medical) in India (Declared as Category - I University by UGC Under Graded Autonomy Regulations, 2018) (An ISO 9001:2015, ISO 14001:2015 Certified University)</small>			
<b>Dr. D. Y. Patil College of Nursing</b> Pimpri, Pune - 18			
<b>Student Grievance Redressal Portal</b> <a href="http://www.ugc.ac.in/grievance">http://www.ugc.ac.in/grievance</a>			
<b>Grievance Redressal Committee Members</b>			
Sr. No.	Name	Designation	Cell Number
1	Dr.(Mrs.) Khurshid Jamadar	Chairperson	9890771989
2	Mrs. Martha Raut	Member Secretary	9860466390
3	Dr. (Mrs.) Sadhana Adhyapak	Member	9823959012
4	Mrs. Jayabala Aghamkar	Member	9767745077
5	Student Representatives	First Year M.Sc. Nursing First Year P.B.B.Sc. Nursing First Year B.Sc. Nursing	



The logo for DPU (Dr. D. Y. Patil University) features the letters 'DPU' in a bold, dark red serif font. A stylized yellow and orange swoosh is positioned behind the 'D' and 'P'.

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