



Dr. D. Y. PATIL VIDYAPEETH, PUNE

(Deemed to be University)

(Re-accredited by NAAC with a CGPA of 3.62 on a four point scale at 'A' Grade)

20th rank in **Medical Category** and 46th rank in **University Category** in India (NIRF-2019)

(Declared as **Category - I University** by UGC Under Graded Autonomy Regulations, 2018)

(An ISO 9001 : 2015 and 14001 : 2015 Certified University)

6.5.3 IMPACT ANALYSIS OF THE INITIATIVES CARRIED OUT AND USED FOR QUALITY IMPROVEMENT

Internal Quality Assurance Cell (IQAC)



6. 5. 3: Impact Analysis Report

The Internal Quality Assurance Cell (IQAC) was established by DPU with the aim of promoting excellence through institutional quality parameters. Since then IQAC has contributed meaningfully for institutionalizing the quality assurance strategies and processes. This has helped in improving the academic, administrative and research performance as reflected in the achievements of DPU. Further the measures have been taken to improve the quality by internalising the quality culture based on core parameters of NAAC. The IQAC has been constituted as per the UGC and NAAC guidelines on 1st October 2009 as post accreditation initiative after the Vidyapeeth was accredited with ‘A’ grade by NAAC. The committee includes Vice-Chancellor as a Chairperson, external experts and members from constituent colleges/ institutes, students and administration.

Institution wise sub-committees have been formed with Principal / Dean / Director as the Chairperson and members from faculty. These sub-committees are responsible for implementation of quality enhancement activities within the framework of five core values given by NAAC. Further the IQAC collects all the information and data on academic, research, outreach and clinical activities along with the administrative actions for preparation of AQARs. The data and information received from all institutions is collected and verified by IQAC before being included in AQAR and other reports.

Major quality initiatives of the IQAC are listed below	
a) Quality initiatives in curriculum development	<ul style="list-style-type: none">• Curriculum design and development over and above norms of Regulatory bodies• CBME is being implemented for academic year 2019-20 for I MBBS• Revision of curriculum and commencement of programme outcomes, course outcomes and specific learning outcomes• Implementations of new programmes, value added courses and CBCS in respective disciplines• Integration of cross-cutting issues and professional ethics in curricula• Feedback collected from students, alumni, parents and faculty in curriculum development. Feedback is analysed and action taken report on feedback and related documents are made available on institutional website
b) Quality monitoring of Teaching -learning process:	<ul style="list-style-type: none">• Interaction with faculty for improvement.• Arranging workshops, seminars on faculty development through University Centre for Professional Education and Faculty Development (UCPE & FD) as well as education units of constituent colleges such as MEU/NEU/DEU/AEU/HETU/BEU/OEU etc• Progress of clinical skills lab• Monitoring mentorship scheme, conducting remedial drills and doubt clearing sessions.• Reviewing examination results and suggesting innovative methods of assessment• Promoting use of ICT and training for using DPU-ERP System.• Feedback collection on teachers from students

<p>c) Initiatives of IQAC in promoting Research.</p>	<ul style="list-style-type: none"> • Inputs in formulation of Board of Research at University level and Research Advisory Committees at constituent units. • Inputs in formulation of DPU Research Policy. • Inputs for Creation of Central Research facility including Molecular Diagnostic Lab and Regenerative Medicine Laboratory. • Organizing seminars / workshops on research awareness, research methodology, dissertation / publication writing and input for anti-plagiarism policies. • Motivation for interdisciplinary research. • Inputs in formulation of Ph.D. regulations. • Suggestions for instituting Best Research Award and Innovative Teaching award, Ideal Teacher Award, Young Researcher Award, Consistent Performance Award and seed money for research proposal inclusive of STS projects
<p>d) Initiative of IQAC in student support activities:</p>	<ul style="list-style-type: none"> • Suggestion for instituting DPU Merit – Scholarship scheme and PhD and Post-Doctoral Fellowships. • Inputs for establishing NSS units at constituent unit level to organize various extension and outreach activities, including Unnat Bharat Abhiyan, Swachh Bharat Abhiyan, Health Awareness Camps etc. • Involvement in organisation of cultural (DPU-NITE) and Sports events (DPU-URJA) • Involvement in mentorship activity and organizing classes for local language as well as cultural and sports activities • Suggestion for instituting Gold Medal /Prizes for top ranking students. • Awareness programs for gender sensitization, zero tolerance for ragging, human values as well as conduct and discipline.
<p>e) Contribution of IQAC in governance and infrastructure development:</p>	<ul style="list-style-type: none"> • Inputs for formulating DPU Vision 2025 document and framing policies for code of conduct and discipline for staff and students. • Intellectual Property Rights (IPR), IT policy, and in developing self-appraisal mechanism, for faculty. • Periodic conduct of Academic and Administrative Audit besides its compliances and preparation of SOP for IQAC and AQARs. • Contribution in NIRF, ISO Certification and NABH/NABL accreditations. • Suggestions for conduct of Environmental Audit, Green Audit, Energy Audit and solid/ liquid waste management and rainwater harvesting. • Active role in Flood Disaster Management Relief work by involving faculty, students and administration. • Contribution in signing MOU's with other institutions. • IQAC facilitated formation of Innovation and Incubation Cell at all constituent units and Incubation Centre at Vidyapeeth.

f) Green campus initiatives	<ul style="list-style-type: none">• Initiation of Environmental, Green and Energy audit• Expansion for alternate sources of energy and energy conservation measures by executing biogas plant and solar energy• Supervision of the degradable and non-degradable waste complying with guidelines of Maharashtra Pollution Control Board (MPCB)• Initiated restricted entry of automobiles, Battery-powered vehicles, Pedestrian-friendly pathways, Ban on the use of Plastics, Landscaping with trees and plants in DPU campus.
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The impact of above initiatives:

A clear vision and mission with a focus on quality by a proactive leadership had enabled DPU to earn a place amongst the top-ranked Universities of the country. The IQAC monitors performance of constituent units by involving constituent unit based Sub-committees which conduct awareness and sensitisation activities that are documented and reported to IQAC. These Sub-Committees also help IQAC to conduct impact analysis for which both qualitative and quantitative data are used.

Feedback taken from students, teachers, institutional heads, parents and alumni is used for impact analysis and for implementing quality enhancement initiatives. Inputs from external agencies e.g. NAAC, NABH, NABL, all Regulatory Councils like MCI, DCI, AYUSH, INC, UGC, AICTE, DBT, SIRO, BIRAC and others (AAA, ISO) are also used for quality enhancement.

This has enabled DPU for its holistic development in the last five years. The improvement in the performance and some quality audits conducted as well as the achievements are as follows:

1] Improvement in the performance:

- DR. D.Y. Patil Vidyapeeth was accorded Category I University status by University Grants Commission under Graded Autonomy 2018.
- Inclusion of the DR. D.Y. Patil Vidyapeeth under Section 12B by the University Grants Commission in 2018.
- The Vidyapeeth achieved 9th rank amongst the cleanest Higher Educational Institutes in the country in the Category of Residential Universities – UGC in Swachh Campus Ranking 2019 conducted by MHRD, Government of India.
- The Constituent units increased from 7 to 9 with inclusion of Ayurved and Homeopathic Medical Colleges under the ambit of DPU
- In all 22 PG programmes were added (Ayurved, Homeopathy, Emergency Medicine)
- There is increase in academic departments from 39 to 68 (87.1%),
- New programs have been increased from 73 to 119 (46.6%)

- Three new super speciality programs were added viz. DM-Cardiology, MCH CVTS and DM Neurology.
- Average number of days for declaration of results improved to less than ten days (av.5- 7.5 days)
- New courses have increased from 583 to 832 (42.7%) and value added courses from 29 to 79.
- About 81% curricula were revised.
- The student strength has increased from 3310 to 4826
- Total teaching staff increased from 501 to 642.
- The infrastructure was expanded and hospital beds were increased from 1480 in 2014 to 2011 in 2019.
- State of the Art Eighteen (18) Modular OT's were added with Robotic Surgery facility and Renal Transplant, Liver and Corneal Transplant were started.
- Human Milk Bank was upgraded to international standards.
- Dental Implant Centre was established.
- DPU Incubation Centre was established and 14 patents have been published, 5 patents have been filed and 1 US patent is granted.
- Medical Hospital Building has been Completed with 8 Floors.
- State -of-the-art CSSD facility is created.
- Internet Band width is increased to more than 1000 Mbps.
- Number of smart boards increased from 7 to 33.
- Number of CCTV increased from 228 to 688.
- Number of PCs increased from 860 to 1669.
- New auditorium and New Vidyapeeth office have been constructed.
- Central Library is upgraded with state of the art facilities.
- Teaching-learning infrastructure was augmented with ICT to develop smart classrooms for interactivity. Expected Learning outcomes are available to students through the DPU-ERP as also e-lectures and videos, developed by faculty. These enhancements are supported by continuous assessment, online self-assessment and examinations.
- For e-content development facilities like Media Centre and Lecture recording are created. In order to include e-content in learning DPU has developed AV studio that is used for learning innovations.
- These initiatives have shown enhancement in student performance as reflected in curriculum outcome analysis by the examination scores and pass percentage (avg. 95%), which has shown an upward trend in the last five years.

- Impact of research promotion initiatives and efforts to promote research have made a significant impact that includes:
 - Establishment of Regenerative Medicine and Molecular Diagnostic Laboratories, DPU Incubation Centre and provision of seed money (Rs. 407.81 lakh) to 380 teachers have resulted in start-ups incubated on campus, award of 20 Patents and Copyrights, increase in publications from 1631 (2009-14) to 1910 (2014–19). Increase in publications in indexed journals from 1240 (2009-14) to 1619 (2014–2019), publications in high impact factor journals like Nature and Lancet, 3686 citations in Scopus and increase in h-Index of 24 to 47 (Scopus) overall and generation Rs. 136.59 lakh from research consultancy.
 - DPU-ERP provides online administrative support and has structured feedback mechanisms to collect and analyse data. Students assess curricular aspects, quality of teaching-learning process, mentoring support and utilisation of upgraded facilities. Faculty feedback is solicited on work satisfaction, teaching-learning process, student progress and research. Feedback is used to make necessary improvements.
 - Administrative and financial management of DPU follows a continuous quality improvement policy with maximum transparency and meticulous documentation. Significant progress has been made towards achieving paperless administration. In-house DPU-ERP has made services efficient for patients, students, faculty and staff.

Summary: Overall improvement in performance

Parameter	2009	2014	2019
Constituent Units	07	07	09
Departments	35	38	68
Total programmes	64	86	119
UG programmes	07	09	11
PG programmes	43	46	68
PG Diploma (Subjects)	12	12	14
Super Speciality	01	03	06
Ph.D. (Faculty)	01	06	08
Ph.D. (Subjects)	13	37	54
Diploma / Fellowships	--	10	12
Student Strength (Total)	3062	3905	4826
Male students	1529	1575	2005
Female students	1533	2330	2821
Faculty strength (Professors, Assoc.P, Asst.P)	343	501	642
Others (Tutors, Demonstrators)	152	211	105
Total Faculty strength	495	712	747
Non-Teaching strength (Total)	1519	3723	3994
Admin.	630	1806	1840
Technical	129	242	336
Nursing	580	1054	1117
Others (Security & housekeeping)	180	621	701

A] Infrastructure Growth

Sr No	Name of the block	No. of floors	Built up area 2014 (m ²)	Built up area 2019 (m ²)
1	University Office (New) with Auditorium, IQAC, Incubation Centre	2P+5	Under construction	10,851 (Completed)
2	University Office (Old) / Institute of Optometry and Visual Sciences	G+2	846	846
3	Medical College and Hospital	B+G+5	33,968	33,968
4	Medical Hospital	G+8	69,702	76,896
5	Dental College and Hospital	B+G+3	14,219	15,700
6	Homoeopathic College and Hospital*	G+2 Floors	-	6,323
A	College of Physiotherapy	3 rd & 4 th Floor	3,820	3,820
B	College of Nursing	4 th & 5 th Floor	2,974	2,974
7	College of Ayurved and Hospital*	G+5 Floors	-	11969
8	Institute of Biotechnology and Bioinformatics	B+ G + 4	8,996	8,996
9	Global Business School and Research Centre	B+ G + 4	12,100	11,696
10	Animal House	P+2	Under construction	552 (Completed)
11	Laundry +Kitchen Block	G	551	551
Total Area			1,47,177	1,85,104

B] Infrastructure Growth

Infrastructure Details	2009	2014	2019
Medical Hospital Beds	840	1480	2011
Dental Chairs	314	388	420
Ayurved Hospital Beds	--	--	250
Homoeopathic Hospital Beds	--	--	43
Built-up Area (M ²)	128,000	147,000	185,000
Hostel Capacity (Students/Interns)	1400	1886	2746
Hostel Capacity (Senior Residents)	--	108	255
Staff Quarters (Flats)	42	140	210

C] Technology upgradation

Technology	2014	2019
Internet Bandwidth (in MBPS)	155	>1000
WI-FI Devices: Juniper (WLA321/222/Mojo (C-110/65))	32	414
Storage Capacity (in TB)	15	110
Number of Software Licenses	456	680
Number of Servers	15	19
Antiviruses	1500	2500
Number of Projectors	24	136
Number of Smart-boards	7	33
Number of PCs	860	1669
Number of Server/ Network Rooms	7	25
Number of Firewalls	1	2
Number of Staff Attendance/Biometric Devices	16	40
Number of Student Class Attendance Devices	-	97
Number of Flap barriers/Tripod turnstiles	12	24
Number of Door Access Control Devices	-	123
Number of Access Library Controls	-	26
Number Of CCTV	218	688
PA System	-	490

D] Research publications and patents

Research Details	2014	2018
Publications (Scopus)	289	990
Publications (Web of Science)	182	730
Publications (PubMed)	320	936
h-Index (Scopus last 5 Years Period)	12	24
h-Index (Scopus Overall Period)	16	47
Total Citations (Scopus last 5 Years Period)	1234	3686
Total Citations (WoS last 5 Years Period)	761	2269
No. of Patents Filed	--	05
No. of Patent Published	--	14
No. of Patent Granted	--	01

The detail analysis of research achievements are available on the following link :

- I] [View Document](#)
- II] [View document](#)

2] Participation in Accreditation process :

The continuous and sustained development has enabled DPU to undergo accreditation by National Assessment and Accreditation Council (NAAC) for two consecutive cycles in 2009 and 2014 and was accredited with A grade with CGPA of 3.08 and 3.62 respectively.

- During the first cycle of accreditation the Peer Team visited Dr. D. Y. Patil Vidyapeeth, Pune from 7 to 9th April 2009. The team submitted the report of their observations ([View Document](#)). The action taken report on recommendations of the team (2009) is submitted to NAAC in the SSR 2014 of 2nd Cycle. ([View Document](#)).
- The second cycle of accreditation was conducted in January 2015 and the peer team report has been submitted ([View Document](#)) to NAAC. The action taken report on recommendations of NAAC peer team (2015) is prepared. ([View Document](#))
- Participation in pilot study project of NAAC after the release of new manual for the Health Sciences Universities in 2019.

3] Quality audits: AAA visits and AQARs

During the period under assessment (2014-15 to 2018-19) two AAA visits were conducted by involving experts from field of health science education. The details of visit schedules are as follows:

- First AAA Visit : The visit was scheduled from August 31st to September 2, 2018 : Academic and Administrative Audit (AAA) was conducted to review the quality assessment processes of Dr. D. Y. Patil Vidyapeeth by inviting eminent personalities in the field of health sciences education. ([View Document](#)). The suggestions made by the committee have been complied with and action taken report is available ([View Document](#))
- Second AAA Visit : The visit was scheduled from July 4th, 2019 to July 6th, 2019. ([View Document](#)). The suggestions given by the AAA committee have been implemented and IQAC has prepared compliance report of the same. ([View Document](#))
- The IQAC has ensured timely submission of AQARs for the years 2014-2015, 2015-2016, 2016-2017, 2017-2018 as per NAAC guidelines. All these reports are available on the website of the Vidyapeeth.
AQAR 2014-15: <https://dpu.edu.in/documents/other/AQAR-2014-15.pdf>
AQAR 2015-16: <https://dpu.edu.in/documents/other/AQAR-2015-16.pdf>
AQAR 2016-17: <https://dpu.edu.in/documents/other/AQAR-2016-17.pdf>
AQAR 2017-18: <https://dpu.edu.in/documents/other/AQAR-2017-18.pdf>

4] Participation for NIRF process :

DPU has actively participated in the National Institutional Ranking Framework (NIRF) process with the IQAC acting as a nodal point for data and document collection and analysis. As a result of these sustained efforts, DPU has been able to

achieve a high rank consistently in the NIRF. The details of year wise achievements of DPU in National Institutional Ranking Framework (NIRF) conducted by Ministry of Human Resource Development (MHRD), New Delhi, are as follows:

- NIRF-2020 : Dr. D. Y. Patil Vidyapeeth, Pune has achieved rank as 3rd in Dental Category, 24th in Medical Category, 46th in University Category and 75th in Overall Category in India.
- NIRF-2019 : Dr. D. Y. Patil Vidyapeeth, Pune has achieved rank as 20th in Medical Category, 46th in University Category and 70th in Overall Category in India.
- NIRF-2018 : Dr. D. Y. Patil Vidyapeeth, Pune has achieved rank as 18th in Medical Category, 52nd in University Category and 79th in Overall Category in India.
- NIRF-2017 : Dr. D. Y. Patil Vidyapeeth, Pune has achieved rank as 47th in University Category and 76th in Overall Category in India.

After completion of 5 years (2014-15 to 2018-19) DPU is now going ahead with the 3rd cycle of reassessment by NAAC as per the Manual of Health Sciences for Universities revised on 23/9/2019. During this period of five years the IQAC has taken several initiatives for enhancement of quality of teaching-learning, research, training, co-curricular and extracurricular activities of DPU. IQAC has contributed significantly for institutionalizing the quality assurance strategies and processes by forming various committees like Anti-Ragging Committee, Grievance Redressal Cell, Website Committee, Parents Teachers Meeting Committee and Mentorship Committee. Some of them are as follows :

1] Inputs in preparation of Annual Reports of DPU:

- (i) Annual Report 2011-12: <https://dpu.edu.in/documents/other/Annual-Report-2011-12.pdf>
- (ii) Annual Report 2012-13: <https://dpu.edu.in/documents/other/Annual-Report-2012-13.pdf>
- (iii) Annual Report 2013-14: <https://dpu.edu.in/documents/other/Annual-Report-2013-14.pdf>
- (iv) Annual Report 2014-15: <https://dpu.edu.in/documents/other/Annual-Report-2014-15.pdf>
- (v) Annual Report 2015-16: <https://dpu.edu.in/documents/other/Annual-Report-2015-16.pdf>
- (vi) Annual Report 2016-17: <https://dpu.edu.in/documents/other/Annual-Report-2016-17.pdf>
- (vii) Annual Report 2017-18: <https://dpu.edu.in/documents/other/Annual-Report-2017-18.pdf>
- (viii) Annual Report 2018-19: <https://dpu.edu.in/documents/other/Annual-Report-2018-19.pdf>

2] Inputs in organizing Conferences, Seminars, Workshops on quality :

- (i) http://naacdata.dpu.edu.in/Supplementary/University/3-3-2_14932.pdf

3] Collaborative initiatives with other Institution(s)

- I) <https://dpu.edu.in/collaboration.aspx>
- II) https://naacdata.dpu.edu.in/Supplementary/University/3-7-1_15195.xlsx
- III) http://naacdata.dpu.edu.in/Supplementary/University/3-5-1_15007.pdf

4] Orientation programs on quality issues for teachers and students

- (i) <https://events.dpu.edu.in/event-details.aspx?eventid=44&InstituteID=1>
- (ii) <https://events.dpu.edu.in/event-details.aspx?eventid=45&InstituteID=1>
- (iii) <https://events.dpu.edu.in/event-details.aspx?eventid=46&InstituteID=1>
- (iv) <https://events.dpu.edu.in/event-details.aspx?eventid=254&InstituteID=1>
- (v) <https://events.dpu.edu.in/event-details.aspx?eventid=278&InstituteID=1>
- (vi) <https://events.dpu.edu.in/event-details.aspx?eventid=461&InstituteID=1>
- (vii) <https://events.dpu.edu.in/event-details.aspx?eventid=537&InstituteID=1>
- (viii) <https://events.dpu.edu.in/event-details.aspx?eventid=43&InstituteID=2>
- (ix) <https://events.dpu.edu.in/event-details.aspx?eventid=182&InstituteID=2>
- (x) <https://events.dpu.edu.in/event-details.aspx?eventid=234&InstituteID=2>
- (xi) <https://events.dpu.edu.in/event-details.aspx?eventid=204&InstituteID=2>
- (xii) <https://events.dpu.edu.in/event-details.aspx?eventid=47&InstituteID=2>
- (xiii) <https://events.dpu.edu.in/event-details.aspx?eventid=196&InstituteID=2>
- (xiv) <https://events.dpu.edu.in/event-details.aspx?eventid=255&InstituteID=2>
- (xv) <https://events.dpu.edu.in/event-details.aspx?eventid=265&InstituteID=2>
- (xvi) <https://events.dpu.edu.in/event-details.aspx?eventid=266&InstituteID=2>
- (xvii) <https://events.dpu.edu.in/event-details.aspx?eventid=328&InstituteID=2>

Quality audits and outcomes by recognized State, National agencies

(NIRF, ISO, NABH, NABL Certification)

A] NIRF Ranking :

- (i) NIRF 2017 Overall Category:
<https://dpu.edu.in/documents/nirf-new/DPU-NIRF-Full-Report.pdf>
- (ii) NIRF 2018 Overall Category:
<https://dpu.edu.in/documents/DPU-NIRF-Final-Report-2018-Overall.pdf>
- (iii) NIRF 2018 Medical Category:
<https://dpu.edu.in/documents/Medical-NIRF-Final-Report-2018-Overall.pdf>
- (iv) NIRF 2019 Overall Category:
<https://dpu.edu.in/documents/nirf/DPU-NIRF-Final-Report-2019-overall.pdf>
- (v) NIRF 2019 Medical Category:

<https://dpu.edu.in/documents/nirf/Medical-NIRF-Final-Report-2019-Overall.pdf>

(vi) NIRF 2020 Overall Category:

<https://dpu.edu.in/documents/nirf/Overall-NIRF-Report-2020.pdf>

(vii) NIRF 2020 Medical Category:

<https://dpu.edu.in/documents/nirf/Medical-NIRF-Report-2020.pdf>

(viii) NIRF 2020 Dental Category:

<https://dpu.edu.in/documents/nirf/Dental-NIRF-Report-2020.pdf>

B] ISO Certifications :

(i) DPU-ISO-Certificate-9001-2015:

<https://dpu.edu.in/documents/DPU-ISO-Certificate-9001-2015.pdf>

(ii) DPU-ISO-Certificate-14001-2015:

<https://dpu.edu.in/documents/DPU-ISO-Certificate-14001-2015.pdf>

(iii) Green-Education-Campus-Certificate:

<https://dpu.edu.in/documents/Green-Education-Campus-Certificate.pdf>

C] NABH Certifications :

(iv) NABH-Certificate [Ayurveda College]:

<https://ayurved.dypvp.edu.in/documents/NABH-Certificate.pdf>

(v) NABH-Certificate [Homoeopathic College]:

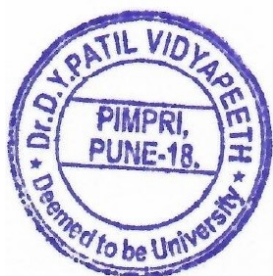
<https://homoeopathy.dypvp.edu.in/documents/accreditation/NABH.pdf>

(vi) NABH Medical (Pre accreditation) :

http://naacdata.dpu.edu.in/supplementary/University/3-1-6_15405.pdf

D] NABL Certification : Molecular Diagnostic Lab

https://naacdata.dpu.edu.in/Supplementary/University/3-1-6_17048.pdf



VICE CHANCELLOR
DR. D. Y. PATIL VIDYAPEETH, PUNE

DPU

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

Sant Tukaram Nagar, Pimpri, Pune - 411 018.