

INDIA RANKINGS 2021

NATIONAL INSTITUTIONAL RANKING FRAMEWORK

Methodology for Ranking of Academic Institutions in India

(RANKING METRICS FOR DENTAL)



Ministry of Human Resource Development

Summary of Ranking Parameters and Weightages- 2021

Sr.	Parameter	Marks	Weightage
No.			
1	Teaching, Learning & Resources	100	0.30
2	Research and Professional Practice	100	0.30
3	Graduation Outcomes	100	0.20
4	Outreach and Inclusivity	100	0.10
5	Perception	100	0.10

(Dental)

Sr.No.	Parameters	Marks
1.	Teaching, Learning & Resources (TLR)	
	Ranking weight: 0.30	
	A. Student Strength including Doctoral Students (SS): 15 marks	
	 B. Faculty-student ratio with emphasis on permanent faculty (FSR): 30 marks 	
	C. Combined metric for Faculty with PhD (or equivalent) and	
	Experience (FQE): 20 marks	
	D. Financial Resources and their Utilization (FRU): 35 marks	
2.	Research and Professional Practice (RP)	100
	Ranking weight: 0.30	
	A. Combined metric for Publications (PU): 40 marks	
	B. Combined metric for Quality of Publications (QP): 40 marks	
	C. Footprint of Projects and Professional Practice (FPPP): 20 marks	
3.	Graduation Outcomes (GO)	100
	Ranking weight: 0.20	
	A. Combined metric for Placement and Higher Studies (GPH): 35 marks	
	B. Metric for University Examinations (GUE): 30 marks	
	C. Metric for Number of PG Students Graduated (GPG): 35 marks	
4.	Outreach and Inclusivity (OI)	100
	Ranking weight: 0.10	
	 A. Percentage Students from other States/Countries (Region Diversity RD): 30 marks 	
	B. Percentage of Women (Women Diversity WD): 30 marks	
	C. Economically and Socially Challenged Students (ESCS): 20 marks	
	D. Facilities for Physically Challenged Students (PCS): 20 marks	
5.	Perception (PR)	100
	Ranking weight: 0.10	
	A. Peer Perception: Employers & Academic Peer (PR): 100 marks	

1. Teaching, Learning & Resources (TLR): 100 marks

- Ranking weight: 0.30
- Overall Assessment Metric:

TLR = SS(15) + FSR(30) + FQE(20) + FRU(35)

- Component metrics based on :
 - A. Student Strength including Ph.D. Students: SS
 - B. Faculty-Student Ratio with emphasis on permanent faculty: FSR
 - C. Combined metric for Faculty with PhD (or equivalent) and Experience: FQE
 - **D.** Financial Resources and Their Utilisation: FRU

A. Student Strength including Ph.D. students (MDS) (SS): 15 Marks

- $SS = f(N_T, N_E) \times 10 + f(N_P) \times 5$
- The functions $f(N_T, N_E)$ and $f(N_p)$ are functions to be determined by NIRF.
- *N_T*: Total sanctioned approved intake in the institution considering all UG and PG programs of the institution.
- *N_E*: Total number of students enrolled in the institution considering all UG and PG *Programs of the institution.*
- N_p = Total number of students enrolled for the doctoral program (MDS) till previous academic year.
- Primary Data: To be provided in a prescribed Format.

B. Faculty-Student Ratio with emphasis on permanent faculty (FSR): 30 marks

- FSR = $30 \times [15 \times (F/N)]$
- $N = N_T + N_p$
- F: Full time regular faculty in the institution in the previous year.
- Regular appointment means Faculty on Full time basis. *Faculty on contract basis/ad-hoc basis will be considered if the concerned faculty has taught in both the semesters of academic year 2019-20.*
- Faculty members with Ph.D. and Master's degree (MDS) will be considered and counted here. Faculty member with a Bachelor's degree will not be counted.
- Expected ratio is 1:15 to score maximum marks.
- For F/N < 1: 50, FSR will be set to zero.
- Primary Data: Faculty List to be provided in the Prescribed Format.

C. Combined Metric for Faculty with PhD (or MDS) and Experience (FQE): 20 marks

- FQE = FE
- $FE = 6 \min(3F1, 1) + 6 \min(3F2, 1) + 8 \min(3F3, 1)$

Rationale: Full marks for a ratio of 1:1:1

• Primary Data: Faculty List in the Prescribed Format.

D: Financial Resources and their Utilisation (FRU): 35 Marks

- **FRU** = $8.75 \times f(BC) + 26.25 \times f(BO)$
- BC: Average Annual Capital Expenditure per student for previous three years pertaining dental discipline only. (Excluding expenditure on construction of new buildings)
- BO: Average Annual Operational (or Recurring) Expenditure per student for previous three years pertaining dental discipline only. (Excluding maintenance of hostels and allied services)
- Primary Data: Figures in prescribed format for each activity.

2.Research and Professional Practice (RP): 100 marks

- Ranking weight: 0.30
- Overall Assessment Metric:

RP = PU (40) + QP (40) + FPPP (20)

- The component metrics explained on following pages.
- A. Combined Metric for Publications: PU
- B. Combined Metric for Quality of Publications: QP
- C. Footprint of Projects, Professional Practice: FPPP

A. Combined metric for Publications (PU): 40 marks

- $PU = 40 \times f(P/F_{RQ})$
- *P* is weighted number of publications as ascertained from suitable third party sources.
- F_{RQ} is the maximum of nominal number of faculty members as calculated on the basis of a required FSR of 1:15 or the available faculty in the institution.
- Sources: Third party sources.

B. Combined metric for Quality of Publications (QP): 40 Marks

- $\mathbf{QP} = \mathbf{20} \times \mathbf{f} (\mathbf{CC}/F_{RQ}) + \mathbf{20} \times \mathbf{f} (\mathbf{TOP25P/P})$
- Here CC is Total Citation Count over previous three years.
- P is as computed for PU.
- F_{RQ} is the maximum of nominal number of faculty members as calculated on the basis of a required FSR of 1:15 or the available faculty in the institution.
- TOP25P: Number of citations in top 25 percentile averaged over the previous three years.
- Primary Data: Third Party Sources.

C. Footprint of Projects, Professional Practice (FPPP): 20 marks

- FPPP = FPR + OPD
- $\mathbf{FPR} = \mathbf{10} \times \mathbf{f} (\mathbf{RF})$
- RF is average annual research funding earnings (amount actually received in rupees) per faculty at institute level in previous three years.
- **OPD** = $10 \times f$ (Average OPD per Day)

3. Graduation Outcome (GO):100 marks

- Ranking weight: 0.20
- Overall Assessment Metric:
- GO = GPH(35) + GUE(30) + GPG(35)
- The component metrics are explained on the following pages:
 - A. Combined metric for Placement and Higher Studies : GPH
 - **B.** Metric for University Examinations: GUE
 - C. Metric for Number of PG Students Graduated: GPG

A. Combined Metric for Placement and Higher Studies (GPH): 35 marks

- GPH = $35 \times (N_p/100 + N_{hs}/100)$
- Np = Percentage of graduating students (in UG/ PG programs) placed in the previous three years.
- Nhs = Percentage of graduating students (in UG/ PG programs) who have been selected for higher studies in the previous three years.
- Primary Data : To be provided in a prescribed format

B. Metric for University Examinations (GUE): 30 Marks

- GUE = $30 \times \min[(N_g/80), 1]$
- N_g is the percentage of Students (as a fraction of the approved intake), averaged over previous three years, passing the respective university examinations in stipulated time for the program in which enrolled.
- Primary Data: To be provided in a prescribed format.

C. Metric for Number of PG Students Graduated (GPG): 35 Marks

- **GPG** = $35 \times f(N_{gpg})$
- N_{gpg} = Average number of PG (MDS) students graduated over the previous three years.
- Primary Data: To be provided in the prescribed format.

4. Outreach and Inclusivity (OI): 100 marks

- Ranking weight: 0.10
- Overall Assessment Metric: OI = RD(30) + WD(30) + ESCS(20) + PCS(20)
- The component metrics are explained on following pages:
 - A. Percentage of Students from other States/ Countries (Region Diversity): RD
 - **B.** Percentage of Women (Women Diversity): WD
 - C. Economically and Socially Challenged Students: ESCS
 - **D.** Facilities for Physically Challenged Students: PCS

A. Percentage of Students from other States/ Countries (Region Diversity RD): 30 marks

- RD = 25 × fraction of total students enrolled from other states + 5 × fraction of students enrolled from other countries
- Primary Data: To be provided in the prescribed format.

B. Percentage of Women (Women Diversity WD): 30 marks

- WD = $15 \times (N_{WS}/50) + 15 \times (N_{WF}/20)$
- N_{WS} are the percentage of Women students.
- N_{WF} are the percentage of Women Faculty including the women members in senior administrative positions, such as Heads of Departments, Deans or Institute Heads.
- Expectation: 50% women students and 20% women faculty.
- Primary Data: To be provided in the prescribed format.

C.Economically and Socially Challenged Students (ESCS) : 20 marks

- ESCS = $20 \times f(N_{esc})$
- N_{esc} is the percentage of UG students being provided full tuition fee reimbursement by the institution to pursue their degree programs.
- Primary Data: To be provided by the institution in a prescribed format.

D. Facilities for Physically Challenged Students (PCS): 20 marks

• PCS = 20 marks, if the Institute provides full facilities for physically challenged students, as outlined.

Else, in proportion to facilities.

- Basis: Verifiable Responses to Questions.
- Primary Data: To be provided in a prescribed format.

5. Perception (PR) – 100 marks

- Ranking weight: 0.1
- Overall Assessment Metric: PR = 100
- Component metrics are explained in the following pages:

A. Peer Perception: Employers & Academic Peers (PR): 100 marks

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- This is to be done through a survey conducted over a large category of Employers, Professionals from Reputed Organizations and a large category of academics to ascertain their preference for graduates of different institutions.
- Comprehensive list will be prepared taking into account various sectors, regions, etc.
- Lists to be updated periodically.