



## **INDIA RANKINGS 2023**

### **NATIONAL INSTITUTIONAL RANKING FRAMEWORK**

**Methodology for Ranking of Academic Institutions in India**

**(RANKING METRICS FOR MEDICAL)**



**Ministry of Human Resource Development**

## Summary of Ranking Parameters and Weightages- 2023

(Medical)

<b>Sr. No.</b>	<b>Parameter</b>	<b>Marks</b>	<b>Weightage</b>
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

Sr.No.	Parameters	Marks
<b>1.</b>	<b>Teaching, Learning &amp; Resources (TLR)</b> <b>Ranking weight: 0.30</b>	<b>100</b>
	<ul style="list-style-type: none"> <li>A. Student Strength including Doctoral Students(SS): 20 marks</li> <li>B. Faculty-student ratio with emphasis on permanent faculty (FSR): 30 marks</li> <li>C. Combined metric for Faculty with PhD (or equivalent) and Experience (FQE): 20 marks</li> <li>D. Financial Resources and their Utilization (FRU): 30 marks</li> </ul>	
<b>2.</b>	<b>Research and Professional Practice (RP)</b> <b>Ranking weight: 0.30</b>	<b>100</b>
	<ul style="list-style-type: none"> <li>A. Combined metric for Publications (PU): 40 marks</li> <li>B. Combined metric for Quality of Publications (QP): 40 marks</li> <li>C. IPR and Patents: Published and Granted (IPR): 10 marks</li> <li>D. Footprint of Projects and Professional Practice (FPPP): 10 marks</li> </ul>	
<b>3.</b>	<b>Graduation Outcomes (GO)</b> <b>Ranking weight: 0.20</b>	<b>100</b>
	<ul style="list-style-type: none"> <li>A. Combined metric for Placement and Higher Studies (GPH): 25 marks</li> <li>B. Metric for University Examinations (GUE): 25 marks</li> <li>C. Metric for Number of PG Students Graduated (GPG): 30 marks</li> <li>D. Metric for Number of Super Specialty Student Graduated (GSS): 20 marks</li> </ul>	
<b>4.</b>	<b>Outreach and Inclusivity (OI)</b> <b>Ranking weight: 0.10</b>	<b>100</b>
	<ul style="list-style-type: none"> <li>A. Percentage Students from other States/Countries (Region Diversity RD): 30 marks</li> <li>B. Percentage of Women (Women Diversity WD): 30 marks</li> <li>C. Economically and Socially Challenged Students (ESCS): 20 marks</li> <li>D. Facilities for Physically Challenged Students (PCS): 20 marks</li> </ul>	
<b>5.</b>	<b>Perception (PR)</b> <b>Ranking weight: 0.10</b>	<b>100</b>
	<ul style="list-style-type: none"> <li>A. Peer Perception: Employers &amp; Academic Peer (PR): 100 marks</li> </ul>	

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

- **Ranking weight: 0.30**

- **Overall Assessment Metric:**

$$\text{TLR} = \text{SS (20)} + \text{FSR (30)} + \text{FQE (20)} + \text{FRU (30)}$$

- **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 (MS/MD/DNB/MCh/DM) (SS): 20 Marks**

- $SS = f(N_T, N_E) \times 15 + f(N_P) \times 5$
- 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 (MS/MD/DNB/MCh/DM) 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 2021-22.*
- Faculty members with Ph.D. and Master's degree 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 MS/MD/MDS/DNB/MCh/DM) and Experience (FQE): 20 marks**

- $FQ = 10 \times (F_{RA}/95)$ ,  $F_{RA} < 95\%$ ;
- $FQ = 10$ ,  $F_{RA} \geq 95\%$ .
- Here  $F_{RA}$  is the percentage of Faculty with Ph.D. (or equivalent qualification) with respect to the total no. of faculty required or actual faculty whichever is higher, in the previous year.
- Here F is the percentage of Faculty with Ph.D. (or equivalent qualification), over the previous 3 years.  
F1=Fraction with Experience up to 8 years;  
F2= Fraction with Experience between 8+ to 15 years;  
F3=Fraction with Experience > 15 years.
- **FE = 3min(3F1, 1) + 3 min(3F2, 1) + 4 min(3F3, 1)**  
Rationale: Full marks for a ratio of 1:1:1
- **FQE = FQ + FE**
- **Primary Data: Faculty List in the Prescribed Format.**

**D: Financial Resources and their Utilisation (FRU): 30 Marks**

- **FRU = 7.5×f(BC) + 22.5×f(BO)**
- BC: Average Annual Capital Expenditure per student for previous three years pertaining medical discipline only. (**Excluding expenditure on construction of new buildings**)
- BO: Average Annual Operational (or Recurring) Expenditure per student for previous three years pertaining medical 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:**  
$$\text{RP} = \text{PU (40)} + \text{QP (40)} + \text{IPR (10)} + \text{FPPP (10)}$$
- **The component metrics explained on following pages.**
  - A. Combined Metric for Publications: PU**
  - B. Combined Metric for Quality of Publications: QP**
  - C. IPR and Patents: Published and Granted: IPR**
  - D. 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<sub>RQ</sub> 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**

- **$QP = 20 \times f(CC/FRQ) + 20 \times f(TOP25P/P)$**
- Here CC is Total Citation Count over previous three years.
- P is as computed for PU.
- *FRQ 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. IPR and Patents: Patents Published and Granted (IPR): 10 marks**

- **$IPR = IPG + IPP$**

**$IPG = 5 \times f(PG)$**

- PG is the number of patents granted over the previous three years.

**$IPP = 5 \times f(PP)$**

- PP: No. of patents published over the previous three years.

- *Primary Data: Third Party Sources*

**D. Footprint of Projects, Professional Practice (FPPP): 10 marks**

- **FPPP = FPR + FBD**
- **FPR = 5 × f (RF)**
- RF is average annual research funding earnings (amount actually received in rupees) per faculty at institute level in previous three years.
- **FBD = 5 × f (PBD)**
- PBD is percentage of bed occupancy in a day.

### **3. Graduation Outcome (GO):100 marks**

- **Ranking weight: 0.20**
- **Overall Assessment Metric:**
- **$GO = GPH(25) + GUE(25) + GPG(30) + GSS(20)$**
- **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**
  - D. Metric for number of Super Specialty Students Graduated: GSS**

**A. Combined Metric for Placement and Higher Studies (GPH): 25 marks**

- **$GPH = 25 \times (N_p/100 + N_{hs}/100)$**
- $N_p$  = Percentage of graduating students (in UG/ PG programs) placed in the previous three years.
- $N_{hs}$  = 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): 25 Marks**

- $GUE = 25 \times \min [(N_g/80), 1]$
- $N_g$  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): 30 Marks**

- **GPG =  $30 \times f(N_{pg})$**
- $N_{pg}$  = Average number of PG students (MD/MS/DNB) students graduated over the previous three years.
- *Primary Data: To be provided in a prescribed format.*

**D. Metric for Number of Super Specialty Students Graduated (GSS): 20 Marks**

- $GSS = 20 \times f(Nss)$
- $Nss$  = Average number of Super Specialty (MCh/DM) students graduated over the previous three years.
- *Primary Data: To be provided in a 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 × f(N<sub>esc</sub>)**
- N<sub>esc</sub> 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**



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

- 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.