



## **INDIA RANKINGS 2020**

### **NATIONAL INSTITUTIONAL RANKING FRAMEWORK**

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

**(RANKING METRICS FOR COLLEGES)**



**Ministry of Human Resource Development**

## Summary of Ranking Parameters and Weightages- 2020

(Colleges)

<b>Sr. No.</b>	<b>Parameter</b>	<b>Marks</b>	<b>Weightage</b>
1	Teaching, Learning & Resources	100	0.40
2	Research and Professional Practice	100	0.15
3	Graduation Outcomes	100	0.25
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: 0.40</b>	<b>100</b>
	<ul style="list-style-type: none"> <li>A. Student Strength (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 Utilisation (FRU): ): 30 marks</li> </ul>	
<b>2.</b>	<b>Research and Professional Practice (RP)</b> <b>Ranking weight: 0.15</b>	<b>100</b>
	<ul style="list-style-type: none"> <li>A. Combined metric for Publications (PU): 70 marks</li> <li>B. Combined metric for Quality of Publications (QP): 30 marks</li> </ul>	
<b>3.</b>	<b>Graduation Outcomes (GO)</b> <b>Ranking weight: 0.25</b>	<b>100</b>
	<ul style="list-style-type: none"> <li>A. Combined metric for Placement and Higher Studies(GPH): 40 marks</li> <li>B. Metric for University Examinations(GUE): 40 marks</li> <li>C. Median Salary(GMS): 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 of 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: 0.40**

- **Overall Assessment Metric:**

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

- **Component metrics based on :**

**A. Student Strength: 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 (SS): 20 Marks**

- **$SS = f(N_T, N_E) \times 20$**
- The functions  $f(N_T, N_E)$  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.*
- ***Primary Data: To be provided in a prescribed Format.***

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

- **FSR = 30 × [20 × (F/N)]**
- **N= N<sub>T</sub>**
- 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 2018-2019.*
- 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 1:20 to score maximum marks.
- **For F/N < 1: 70, 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 equivalent) and Experience (FQE): 20 marks**

- $FQ = 10 \times (F_{RA}/75)$ ,  $F_{RA} \leq 75\%$ ;
- $FQ = 10$ ,  $F_{RA} > 75\%$ .
- 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.

F1=Fraction with Experience up to 8 years;

F2= Fraction with Experience between 8+ to 15 years;

F3=Fraction with Experience > 15 years.

- $FE = 3\min(3F1, 1) + 3\min(3F2, 1) + 4\min(3F3, 1)$

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 to college. (**Excluding expenditure on construction of new buildings**)
- BO: Average Annual Operational (or Recurring) Expenditure per student for previous three years pertaining to college. (**Excluding maintenance of hostels and allied services**)
  
- *Primary Data: Figures in prescribed format for each.*



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

- **Ranking weight: 0.15**
- **Overall Assessment Metric:**

$$\mathbf{RP = PU (70) +QP (30)}$$

- **The component metrics explained on following pages.**
  - A. Combined Metric for Publications (PU)**
  - B. Combined metric for Quality of Publications (QP)**

**A. Combined metric for Publications (PU): 70 marks**

- **PU = 70 × f(P/F<sub>RQ</sub>)**
- *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 1:20 or the available faculty in the institution.*
- **Sources: Third Party Sources.**

**B. Combined metric for Quality of Publications (QP): 30 Marks**

- $QP = 30 \times f(CC/P)$
- Here CC is Total Citation Count over previous three years.
- P is as computed for PU.
- *Primary Data: Third Party Sources.*

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

- **Ranking weight: 0.25**
- **Overall Assessment Metric:**
- **$GO = GPH(40) + GUE(40) + GMS(20)$**
- **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. Median Salary: GMS**

**A. Combined Metric for Placement and Higher Studies (GPH): 40 marks**

- **$GPH = 40 \times (N_p/100 + N_{hs}/100)$**
- $N_p$  = 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): 40 Marks**

- $GUE = 40 \times \min [(N_g/80), 1]$
- $N_g$  is the percentage of Students (as a fraction of the approved intake), averaged over the 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. Median Salary(GMS): 20 Marks**

- **GMS =  $20 \times f(\text{MS})$**
- MS = median salary of graduates (in UG/PG programs) in the previous three years from an institution.
- ***Primary Data: To be made available by the institutions in the prescribed format giving names of companies, number of students recruited by each, and the maximum, minimum and median salary, offered by each. The overall minimum, maximum and median salary should also be provided.***

#### **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**

- **$RD = 25 \times \text{fraction of total students enrolled from other states} + 5 \times \text{fraction of students enrolled from other countries}$**
- *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)**

**A. Peer Perception: Employers & Academic Peer: 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.