



INDIA RANKINGS 2021

NATIONAL INSTITUTIONAL RANKING FRAMEWORK

Methodology for Ranking of Academic Institutions in India

(RANKING METRICS FOR ARCHITECTURE)



Ministry of Human Resource Development

Summary of Ranking Parameters and Weightages- 2021

(Architecture)

Sr. No.	Parameter	Marks	Weightage
1	Teaching, Learning & Resources	100	0.40
2	Research and Professional Practice	100	0.20
3	Graduation Outcomes	100	0.20
4	Outreach and Inclusivity	100	0.10
5	Perception	100	0.10

Sr.No.	Parameters	Marks
1.	Teaching, Learning & Resources (TLR) Ranking weight: 0.40	100
	A. Student Strength (SS): 20 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 Utilisation (FRU): 30 marks	
2.	Research and Professional Practice (RP) Ranking weight: 0.20	100
	A. Combined metric for Publications (PU): 60 marks B. Combined metric for Quality of Publications (QP): 20 marks C. Footprint of Projects and Professional Practice (FPPP): 20 marks	
3.	Graduation Outcomes (GO) Ranking weight: 0.20	100
	A. Combined metric for Placement and Higher Studies (GPH): 40 marks B. Metric for University Examinations(GUE): 30 marks C. Median Salary(GMS): 30 marks	
4.	Outreach and Inclusivity (OI) Ranking weight: 0.10	100
	A. Percentage of 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) Ranking weight: 0.10	100
	A. Peer Perception: Employers & Academic Peer (PR): 100 marks	

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 $f(N_T, N_E)$ is function 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 × [15 × (F/N)]**
- $N = N_T$
- 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 member with Ph.D., M.Arch/M.Plan and B.Arch with three years of experience will be considered and counted here.
- 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 equivalent) 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.*
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 Utilization (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 architecture discipline only. **(Excluding expenditure on construction of new buildings)**
- BO: Average Annual Operational(or Recurring) Expenditure per student for previous three years pertaining to architecture discipline only. **(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: 0.20**
- **Overall Assessment Metric:**
$$RP = PU (60) + QP (20) + FPPP (20)$$
- **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 and Professional Practice: FPPP**

A. Combined metric for Publications (PU): 60 marks

- **PU = $60 \times f(P/F_{RQ})$**
- *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): 20 Marks

- $QP = 20 \times f(CC/P)$
- Here CC is Total Citation Count over previous three years.
- P is as computed for PU.
- *Primary Data: Third Party Sources.*

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

- **FPPP = FPR + FPC**
- **FPR = 10 × f(RF)**
- RF is average annual research funding earnings (amount actually received in rupees) per faculty at institute level in the previous three years.
- **FPC = 10 × f(CF)**
- CF is average annual consultancy amount (amount actually received in rupees) per faculty at institute level in the previous three years.
- *Primary Data: To be provided by the institution in prescribed format.*

3. Graduation Outcome (GO):100 marks

- **Ranking weight: 0.20**
- **Overall Assessment Metric:**
- **$GO = GPH(40) + GUE(30) + GMS(30)$**
- **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 previous three years.
- N_{hs} = Percentage of graduating students (in UG/PG programs) who have been selected for higher studies in 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 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): 30 Marks

- **GMS = 30 × f(MS)**
- MS = Median salary of graduates (in UG/PG program) in the previous three years from an institution.
- *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

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