

# **INDIA RANKINGS 2020**

## NATIONAL INSTITUTIONAL RANKING FRAMEWORK

Methodology for Ranking of Academic Institutions in India

(RANKING METRICS FOR PHARMACY)



**Ministry of Human Resource Development** 

# **Summary of Ranking Parameters and Weightages- 2020**

# (Pharmacy)

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

Sr.No.	Parameters	Marks
1.	Teaching, Learning & Resources (TLR)	100
	Ranking weight: 0.30	
	A. Student Strength including Doctoral Students(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 Utilization (FRU): 30 marks	
2.	Research and Professional Practice (RP)	100
	Ranking weight: 0.30	
	A. Combined metric for Publications (PU): 35 marks	
	B. Combined metric for Quality of Publications (QP): 40 marks	
	C. IPR and Patents: Published and Granted (IPR): 15 marks	
	D. Footprint of Projects and Professional Practice (FPPP): 10 marks	
3.	Graduation Outcomes (GO)	100
	Ranking weight: 0.20	
	A. Combined metric for Placement and Higher Studies (GPH): 40	
	marks	
	B. Metric for University Examinations(GUE): 15 marks	
	C. Median Salary(GMS): 25 marks	
	D. Metric for Number of Ph.D. Students Graduated (GPHD): 20	
	marks	
4.	Outreach and Inclusivity (OI)	100
	Ranking weight: 0.10	
	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.	D. Facilities for Physically Challenged Students (PCS): 20 marks  Percentian (PP)	100
3.	Perception (PR) Ranking weight: 0.10	100
	A. Peer Perception: Employers & Academic Peer (PR): 100 marks	
	71. Teel Teleeption. Employers & readenile Teel (TK). 100 marks	
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# 1. Teaching, Learning & Resources (TLR): 100 marks

- Ranking weight: 0.30
- Overall Assessment Metric:

$$TLR = SS(20) + FSR(30) + FQE(20) + FRU(30)$$

- 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:  $\ensuremath{\mathsf{FQE}}$
  - D. Financial Resources and Their Utilisation: FRU

## A. Student Strength including Ph.D. students (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<sub>T</sub>: Total sanctioned approved intake in the institution considering all UG and PG programs of the institution
- N<sub>E</sub>: 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 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/adhoc basis will be considered if the concerned faculty has taught in both the semesters of academic year 2018-19
- Faculty members with Ph.D. and M.Phar/Phar.D 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 equivalent) and Experience (FQE): 20 marks

- $FQ = 10 \times (F_{RA}/95)$ ,  $F_{RA} < 95\%$ ;
- $FQ = 10, F_{RA} \ge 95\%$ .
- 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 = 3min(3F1, 1) + 3min(3F2, 1) + 4min(3F3, 1)

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

- $\mathbf{FQE} = \mathbf{FQ} + \mathbf{FE}$
- Primary Data: Faculty List in the Prescribed Format.

#### D: Financial Resources and their Utilization (FRU): 30 Marks

- FRU =  $7.5 \times f(BC) + 22.5 \times f(BO)$
- BC: Average Annual Capital Expenditure per student for the previous three years pertaining to pharmacy discipline only. (Excluding expenditure on construction of new buildings)
- BO: Average Annual Operational (or Recurring) Expenditure per student for the previous three years pertaining to pharmacy 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:

$$RP = PU(35) + QP(40) + IPR(15) + FPPP(10)$$

- 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: Patents Published and Granted: IPR
  - D. Footprint of Projects and Professional Practice: FPPP

## A.Combined metric for Publications (PU): 35 marks

- $PU = 35 \times f(P/F_{RQ})$
- *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

- QP =  $20 \times f (CC/F_{RQ}) + 20 \times f (TOP25P/P)$
- Here CC is Total Citation Count over previous three years.
- P is as computed for PU.
- TOP25P: Number of citations in top 25 percentile averaged over the previous three years.
- $F_{RQ}$  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.
- Primary Data: Third Party Sources.

# C. IPR and Patents: Patents Published and Granted (IPR): 15 marks

- IPR = IPG + IPP
- IPG =  $10 \times f(PG)$
- 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 and Professional Practice (FPPP): 10 marks

- $\mathbf{FPPP} = \mathbf{FPR} + \mathbf{FPC}$
- $\mathbf{FPR} = 7.5 \times \mathbf{f} (\mathbf{RF})$
- RF is average annual research funding earnings (amount actually received in rupees) per faculty at institute level in the previous three years.
- FPC =  $2.5 \times f$  (CF)
- CF is average annual consultancy amount (amount actually received in rupees) per faculty at institute level in the previous three years.

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

- Ranking weight: 0.20
- Overall Assessment Metric:
- GO = GPH(40) + GUE(15) + GMS(25) + GPHD(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
  - D. Metric for Number of Ph.D. Students Graduated: GPHD

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

- GPH =  $40 \times (N_p/100 + N_{hs}/100)$
- $\bullet \quad N_p = \text{Percentage of graduating students (in UG/PG programs) placed in the previous } \\ \text{three years.}$
- $N_{hs}$  = 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 prescribed format.

## B. Metric for University Examinations (GUE): 15 Marks

- GUE =  $15 \times \min [(N_g/80), 1]$
- N<sub>g</sub> 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 prescribed format.

# C. Median Salary(GMS): 25 Marks

- GMS =  $25 \times f$  (MS)
- MS = median salary of graduates (in UG /PG programs) in the previous three years from an institution.
- Primary Data: To be provided in prescribed format

#### D. Metric for Number of Ph.D. Students Graduated (GPHD): 20 Marks

- GPHD =  $20 \times f(N_{phd})$
- $N_{phd}$  = Average number of Ph.D. students graduated (awarded Ph.D.) over the previous three years.
- Primary Data: Number of graduating Ph.D. Students as reflected in the approved Annual Report/Convocation Report 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. Perce	entage of Students from other States/ Countries (Region Diversity RD): 30 marks
•	$RD = 25 \times fraction \ of \ total \ students \ enrolled \ from \ other \ states + 5 \times fraction \ of \ students \ enrolled \ from \ other \ countries$
•	Primary Data: To be provided in the prescribed format.

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

- WD =  $15 \times (N_{WS}/50) + 15 \times (N_{WF}/20)$
- Nws are the percentage of Women students.
- N<sub>WF</sub> 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.

	<b>C.Economicall</b>	v and Socially	Challenged	<b>Students</b>	(ESCS):	20 marks
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- ESCS =  $20 \times f(N_{esc})$
- 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.

	CS=20 marks, if the Institute provides full facilities for physically challenged tudents, as outlined.
E	lse, in proportion to facilities.
В	asis: Verifiable Responses to Questions.
P	rimary 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 (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.