INDIA RANKINGS 2023

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- 2023

(Pharmacy)

<table>
<thead>
<tr>
<th>Sr. No.</th>
<th>Parameter</th>
<th>Marks</th>
<th>Weightage</th>
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<tbody>
<tr>
<td>1</td>
<td>Teaching, Learning &amp; Resources</td>
<td>100</td>
<td>0.30</td>
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<td>2</td>
<td>Research and Professional Practice</td>
<td>100</td>
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<td>3</td>
<td>Graduation Outcomes</td>
<td>100</td>
<td>0.20</td>
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<td>4</td>
<td>Outreach and Inclusivity</td>
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<td><strong>Ranking weight: 0.30</strong></td>
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<td>A. Student Strength including Doctoral Students (SS): 20 marks</td>
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<td>B. Faculty-student ratio with emphasis on permanent faculty (FSR): 30 marks</td>
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<td>C. Combined metric for Faculty with PhD (or equivalent) and Experience (FQE): 20 marks</td>
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<td>D. Financial Resources and their Utilization (FRU): 30 marks</td>
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<td>B. Combined metric for Quality of Publications (QP): 40 marks</td>
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<td>C. IPR and Patents: Published and Granted (IPR): 15 marks</td>
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<td>D. Footprint of Projects and Professional Practice (FPPP): 10 marks</td>
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</table>
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: 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.
- \( N_T \): 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 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 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

- \( F_Q = 10 \times (F_{RA}/95) \), \( F_{RA} < 95\% \);
- \( F_Q = 10 \), \( F_{RA} \geq 95\% \).

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.

- \( FE = 3 \min(3F_1, 1) + 3 \min(3F_2, 1) + 4 \min(3F_3, 1) \)

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

- \( FQE = F_Q + FE \)

- 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:

  \[ \text{RP} = \text{PU}(35) + \text{QP}(40) + \text{IPR}(15) + \text{FPPP}(10) \]

- 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: 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

- \( QP = 20 \times f \left( \frac{CC}{F_{RQ}} \right) + 20 \times f \left( \frac{TOP25P}{P} \right) \)
- 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

- **FPPP = FPR + FPC**

- **FPR = 7.5 \times 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 = 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:

  \[ \text{GO} = \text{GPH}(40) + \text{GUE}(15) + \text{GMS}(25) + \text{GPHD}(20) \]

- 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

- \( \text{GPH} = 40 \times (\frac{N_p}{100} + \frac{N_{hs}}{100}) \)
- \( N_p \) = 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 prescribed format.**
B. Metric for University Examinations (GUE): 15 Marks

- \[ \text{GUE} = 15 \times \min [(N_g/80), 1] \]

- \( N_g \) 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 prescribed format.*
C. Median Salary (GMS): 25 Marks

- GMS = 25 × 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

- \[ \text{GPHD} = 20 \times f(N_{\text{phd}}) \]

- \( N_{\text{phd}} \) = 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. 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

- \( \text{ESCS} = 20 \times f(N_{esc}) \)

- \( N_{esc} \) 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 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.