



INDIA RANKINGS

INDIA RANKINGS 2024

NATIONAL INSTITUTIONAL RANKING FRAMEWORK

Methodology for Ranking of Academic Institutions in India

(RANKING METRICS FOR INNOVATION RANKINGS)



Ministry of Human Resource Development

Summary of Ranking Parameters and Weightages- 2024
(Innovation Ranking)

Sr. No.	Parameter	Marks	Weightage
1	Financial Support for Innovation (FSI)	100	0.30
2	Innovation Achievements (IA)	100	0.15
3	Research and Innovation Output (RIO)	100	0.30
4	Pre-Incubation and Incubation (PII)	100	0.10
5	Adoption Level of Innovation and Entrepreneurship (I&E) Policy in HEI's (AIE)	100	0.05
6	Perception (PR)	100	0.10

S. No.	Parameters	Marks
1.	Financial Support for Innovation (FSI) Ranking weight: 0.25	100
	A. Metrics for Ventures / Startups recognized by DPIIT/Startup India (SU):20 marks B. Metrics for Ventures/ Startups received VC Investment (VCI): 25 marks C. Metrics for FDI investment in Ventures/ Startups (FDII): 25 marks D. Metric for Innovation Grant received from Government Organizations (IG): 30 marks	
2.	Innovation Achievements (IA) Ranking weight: 0.15	100
	A. Combined Metrics for Innovations at various stages of Technology Readiness Level (ITRL): 40 Marks B. Combined Metrics for Ventures/Startups with a turnover of 50 lacs (NVS): 40 Marks C. Alumni Founders of Forbes/Fortune 500 companies (AFF): 20 marks	
3.	Research and Innovation Output in SCI (RIO) Ranking weight: 0.30	100
	A. Combined metric for Publications in SCI (PU): 25 marks B. Combined metrics for Quality of Publication in SCI (CI): 25 marks C. IPR & Patents: Published & Granted (IPR) :40 marks D. Patent Commercialization & Technology Transfer: 10 marks	
4.	Pre-Incubation and Incubation (PII) Ranking weight: 0.10	100
	A. Combined Metric for Pre-Incubation (PI) 30 marks B. Combined Metric for Incubation (IIE): 30 marks C. Combined Metric for FDP in Innovation: 20 marks D. Combined Metric for Credit Courses in Innovation offered by the HEI: 20 marks	
5.	Adoption Level of Innovation and Entrepreneurship (I&E) Policy in HEIs (AIE) Ranking weight:0.10	100
	A. Registered in the NISP portal for I&E Policy Adoption (NISP): 20 Marks B. Annual performance of Institution's Innovation Councils (IICs): 30 Marks C. Participation in KAPILA Portal (KAPILA): 20 Marks D. Participation in Smart India Hackathon (SIH): 30 Marks	
6.	Perception (PR) Ranking weight: 0.10	100
	A. Peer Perception: Academic Peers and Employers (PR): 100 marks	

1. Financial Support for Innovation (FSI): 100 Marks

- **Ranking weight: 0.30**
- **Overall Assessment Metric:**

$$\text{FSI} = \text{SU (20)} + \text{VCI (25)} + \text{FDII (25)} + \text{IG (30)}$$

- **The component metrics are explained on the following pages.**
 - A. Metric for Ventures / Startups recognized by DPIIT/Startup India (SU)**
 - B. Metric for Ventures/ Startups received VC Investment (VCI)**
 - C. Metric for FDI investment in Ventures/ Startups (FDII)**
 - D. Metric for Innovation Grant received from Government Organizations (IG)**

A. Metric for Ventures / Startups recognized by DPIIT/Startup India (SU): 20 Marks

- $SU = 20 \times f(N_{vsp})$
- N_{vsp} : Number of ventures/startup recognized by DPIIT/Startup India in previous three years.

B. Metric for Ventures/ Startups received VC Investment (VCI): 25 Marks

- $VCI = 25 \times f(VC/N_{su})$
- VC: Average VC investment received by the startup of the institute in previous three years.
- N_{su} : No of startups which have received VC investment.

C. Metric for FDI investment in Ventures/ Startups (FDII): 25 Marks

- **FDII = 25 × f (FDI/N_{suf})**
- FDI: Average Foreign Direct Investment received by the startups of the institute in previous three year.
- N_{suf}: No of startups which have received FDI.

D. Metric for Innovation Grant received from Government Organizations (IG): 30

Marks

- **IG = F × 30 f(IGR)**
- IGR: Average innovation grant received by the institutions from government organization in the previous three years.

2. Innovation Achievements (IA): 100 Marks

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

$$\text{IA} = \text{ITRL (40)} + \text{NVS (40)} + \text{AFF (20)}$$

- **The component metrics explained on following pages.**
 - Combined Metrics for Innovations at various stages of Technology
Readiness Level: ITRL**
 - Combined Metrics for Ventures/Startups with a turnover of 50 lacs:
NVS**
 - Alumni Founders of Forbes/Fortune 500 companies: AFF**

A. Combined Metrics for Innovations at various stages of Technology Readiness Level (ITRL): 40 Marks

- **ITRL = 40 × f (NTRL)**
- NTRL = No. of innovations at various technology readiness level in the previous three years.

B. Combined Metrics for Ventures/Startups with a turnover of 50 lacs : 40 Marks (NVS)

- $NVS = 40 \times f(VS50/VS)$
- VS50: No of ventures/startup grown to a turnover of 50 lacs in previous three years.
- VS: Total no of ventures/startup started in previous three years.

C. Alumni Founders of Forbes/Fortune 500 companies: (AFF): 20 Marks

- $AFF = 20 \times f (AF500)$
- $AF500 =$ No of alumni that are founders of Forbes/Fortune 500 companies.

3. Research and Innovation Output in SCI (RIO): 100 Marks

- **Ranking weight: 0.30**
- **Overall Assessment Metric:**

$$\text{RIO} = \text{PU (25)} + \text{CI (25)} + \text{IPR (40)} + \text{PCTT (10)}$$

- **The component metrics explained on following pages.**
 - A. Combined metric for Publications in SCI: PU**
 - B. Combined metrics for Quality of Publication in SCI: CI**
 - C. IPR & Patents: Published & Granted: IPR**
 - D. Patent Commercialization & Technology Transfer: PCTT**

A. Combined metric for Publications in SCI (PU): 25 marks

$$PU = 25 \times f(P/FRQ)$$

- *P* is weighted number of publications as ascertained from suitable third-party sources.
- *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.
- **Sources: Third party sources.**

B. Combined metrics for Quality of Publication in SCI (CI): 25 marks

$$CI = 25 \times f(CC/FRQ)$$

- *Here CC is Total Citation Count over previous three years.*
- *FRQ is same as in PU.*
- **Sources: Third party sources.**

C. IPR & Patents: Published & Granted (IPR): 40 marks

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

- **$IPP = 15 \times f(PP)$**

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

- **$IPG = 25 \times f(PG)$**

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

Sources: Third Party Sources.

D. Patent Commercialization & Technology Transfer (PCTT): 10 marks

$$\text{PCTT} = 10 \times f(\text{CTT})$$

CTT: Patent Commercialized and Technology Transferred in previous three years.

4. Pre-Incubation and Incubation (PII): 100 marks

- **Ranking weight: 0.10**
- **Overall Assessment Metric:**

$$\text{PII} = \text{PI (30)} + \text{IIE (30)} + \text{FDP (20)} + \text{CCI (20)}$$

- **Component metrics based on:**
 - A. Combined Metric for Pre-incubation: PI**
 - B. Combined Metric for Incubation: IIE**
 - C. Combined Metric for FDP in Innovation: FDP**
 - D. Combined Metric for Credit Courses in Innovation offered by the HEI:
CCI**

A. Combined Metric for Pre-incubation: (PI): 30 Marks

- $PI = 30 \times f(PIE)$
- The functions $f(PIE)$ are functions to be determined by NIRF.
- *PIE*: Average expenditure for pre-incubation activities in previous three year.

B. Combined Metric for Incubation (IIE): 30 marks

- $IIE = 15 \times f(IE) + 15 \times f(II)$
- The functions $f(IE)$ & $f(II)$ are functions to be determined by NIRF.
- *IE*: Average expenditure on incubation activities in previous three year.
- *II*: Average income from incubation activities in previous three year.

C. Combined Metric for FDP in Innovation (CFDP): 20 marks

- **CFDP = 20 × f (FDP)**
- *FDP*: Faculty Development Programs in Innovation, Entrepreneurship and IPR in previous three years.

D. Combined Metric for Credit Courses in Innovation offered by the HEI (CCCI): 20 marks

- $CCCI = 20 \times f(CCI)$
- *CCI*: Credit Courses offered in Innovation in previous three years.

5. Adoption Level of Innovation and Entrepreneurship (I&E) Policy in HEIs (AIE): 100 Marks

- **Ranking weight: 0.05**
- **Overall Assessment Metric:**

$$\text{AIE} = \text{NISP (20)} + \text{IICs (30)} + \text{KAPILA (20)} + \text{SIH (30)}$$

- **The component metrics explained on following pages.**
 - A. Registered in the NISP portal for I&E Policy Adoption (NISP)**
 - B. Annual performance of Institution's Innovation Councils (IICs)**
 - C. Participation in KAPILA Portal (KAPILA)**
 - D. Participation in Smart India Hackathon (SIH)**

A. Registered in the NISP portal for I&E Policy Adoption (NISP): 20 Marks

NISP = Institution is registered with the portal for I&E policy.

B. Annual performance of Institution's Innovation Councils (IICs): 30 Marks

IICs = Annual performance of Institution's Innovation Councils

C. Participation in KAPILA Portal (KAPILA): 20 Marks

KAPILA = Institution's participation in KAPILA Portal

D. Participation in Smart India Hackathon (SIH): 30 Marks

SIH = Institution participating in Smart India Hackathon

6. Perception (PR) – 100 marks

- **Ranking weight: 0.1**
- **Overall Assessment Metric: PR = PR (100)**
- **Component metrics are explained in the following pages:**
 - A. Peer Perception: Employers & Academic Peer: (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 considering various sectors, regions, etc.
- Lists to be updated periodically.