

UTTAR PRADESH POLYTECHNIC INSTITUTIONAL RANKING FRAMEWORK



Methodology for Ranking of Polytechnic Institutions in U.P.

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ABOUT INSTITUTIONS RANKING SYSTEM

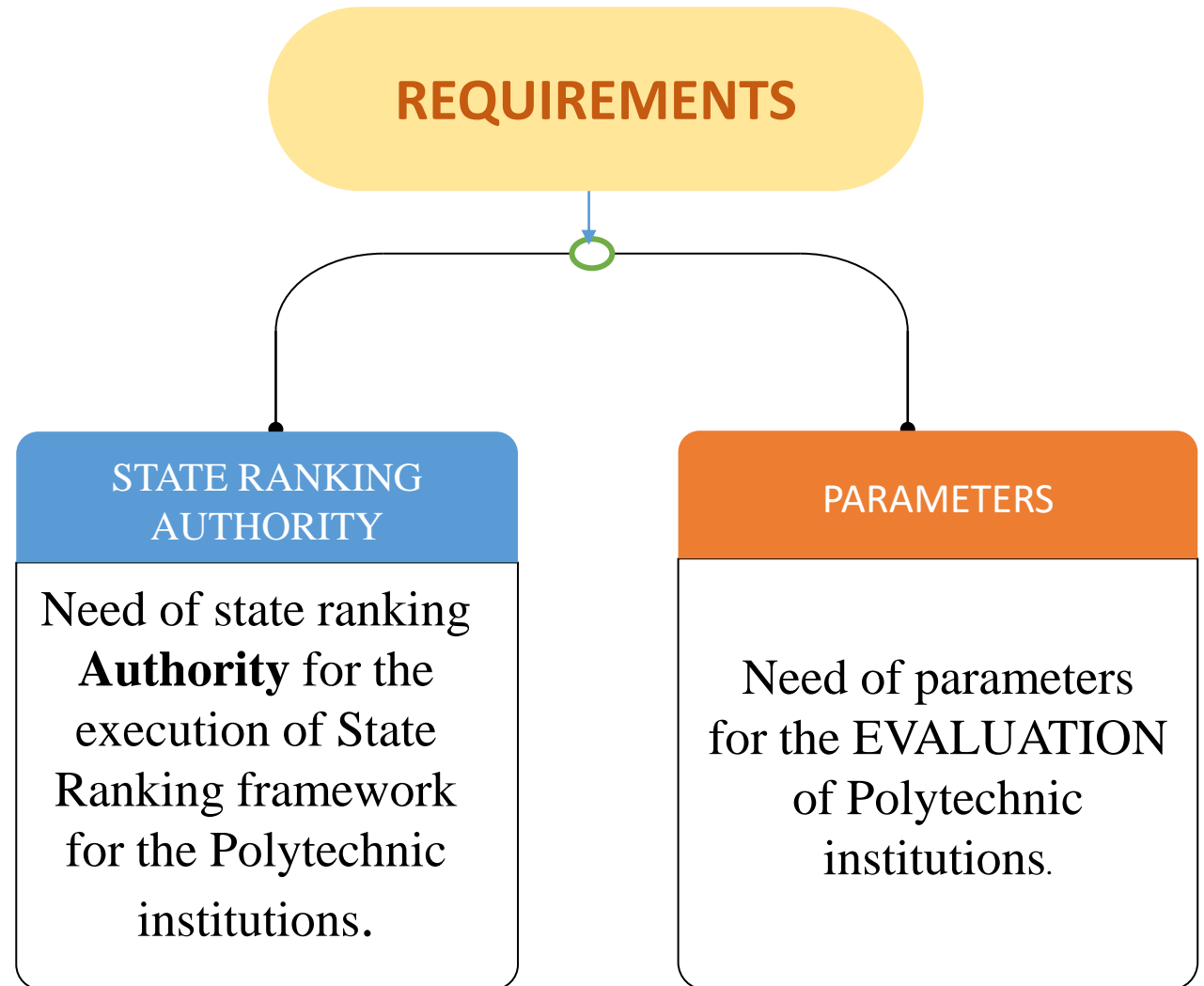
- ❖ Presently, there are some institute ranking systems available at international, national and state level.
- ❖ The National Institutional Ranking Framework (NIRF) was approved by the MHRD and launched by Minister of Human Resource Development on 29th September 2015. This framework **outlines a methodology to rank institutions across the country.**
- ❖ The institute ranking system are available at some state while some other state are working on it.

NEED OF SIRF FOR POLYTECHNIC INSTITUTES

- ❖ The ranking methodology gives a significant importance to the perception of the institution.
- ❖ It **promotes healthy competitions** among the institutions and help to rise the standard of polytechnic education in the state.
- ❖ It allow the **institute to share their own achievements** with the public.
- ❖ It allows the students **to choose top rated polytechnic institute** with this State ranking System.
- ❖ It will give the **fair idea about the institute** to students and their parents (Right to Knowledge)

REQUIREMENTS FOR FRAMING OF SIRF FOR POLYTECHNIC INSTITUTES

This state ranking framework outlines a approach to rank Polytechnic institutions in Uttar Pradesh.



STATE RANKING AUTHORITY



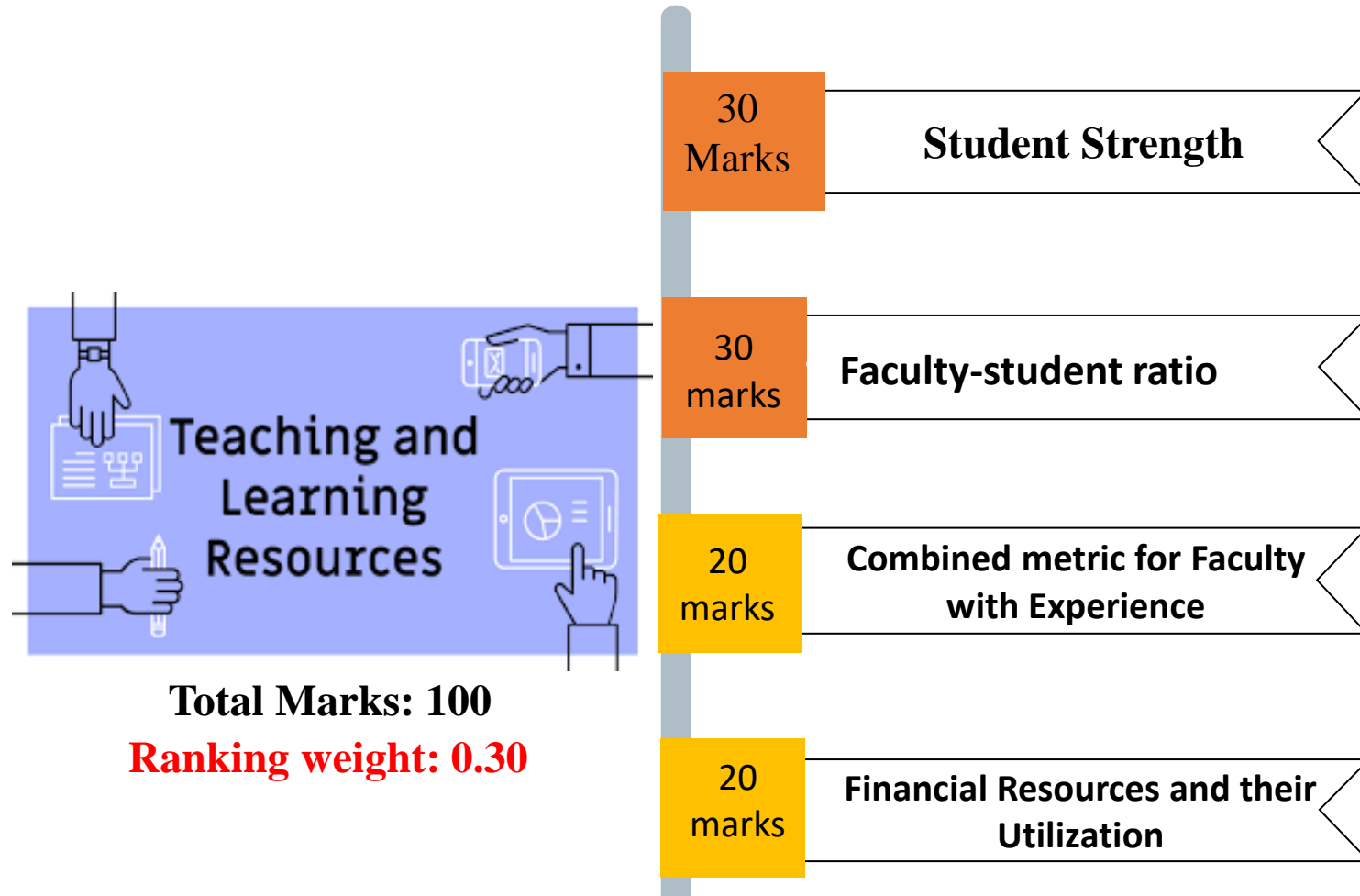
FUNCTIONS OF SRA

SUMMARY OF PROPOSED PARAMETERS AND WEIGHTAGES FOR INSTITUTE RANKING

Sr. No.	Parameter	Marks	Weightage
1	Teaching, Learning & Resources	100	0.30
2	Infrastructure	100	0.20
3	Accreditation	100	0.15
4	Polytechnic Outcomes	100	0.25
5	Research, Perception	100	0.10

The parameters broadly cover Teaching, Learning and Resources, Infrastructure, Accreditation, Polytechnic Outcomes, Research and Professional Practices and ,Perception.

1. TEACHING LEARNING & RESOURCES



$$SS = N_E / N_I \times 30$$

N_I : Total approved intake

N_E : Total number of students enrolled

$$FSR = 30 \times (F/N)$$

$$F = F_1 + F_2$$

F_1 = Full time regular faculty

F_2 = Faculty on contract basis/ad-hoc basis

N = Total Faculty required as per AICTE

$$FE = 6\min(3F_1, 1) + 6\min(3F_2, 1) + 8\min(3F_3, 1)$$

F_1 = Fraction with Experience up to 8 years;

F_2 = Fraction with Experience between 8+ to 15 years;

F_3 = Fraction with Experience > 15 years.

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

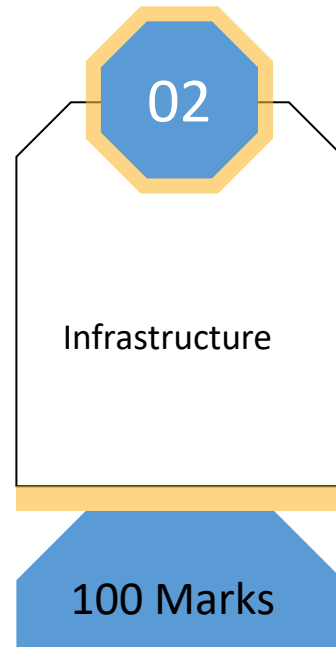
Financial Resources and their Utilization

$$FRU = 7.5 \times f(BC) + 12.5 \times f(BO)$$

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

These parameters are related to the core activities of any place of teaching/learning

2. INFRASTRUCTURE



Ranking weight: 0.20

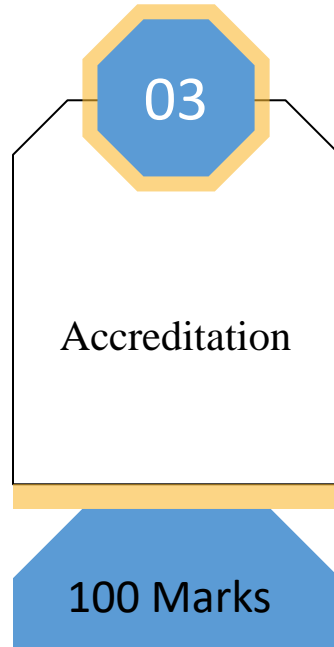
$$I = 100 * A_v / T_{AICTE}$$

Here, $A_v=1$ =No. of availabilities (YES) as per table.

T_{AICTE} = Total no. of Particulars as per table.

- ❖ For the Evaluation of Institute Infrastructure, Total 86 particulars regarding infrastructure from AICTE are taken.

3. ACCREDITATION



Ranking weight: 0.15

$$A=100*(\text{Total NBA Courses}/ \text{Total Courses})$$

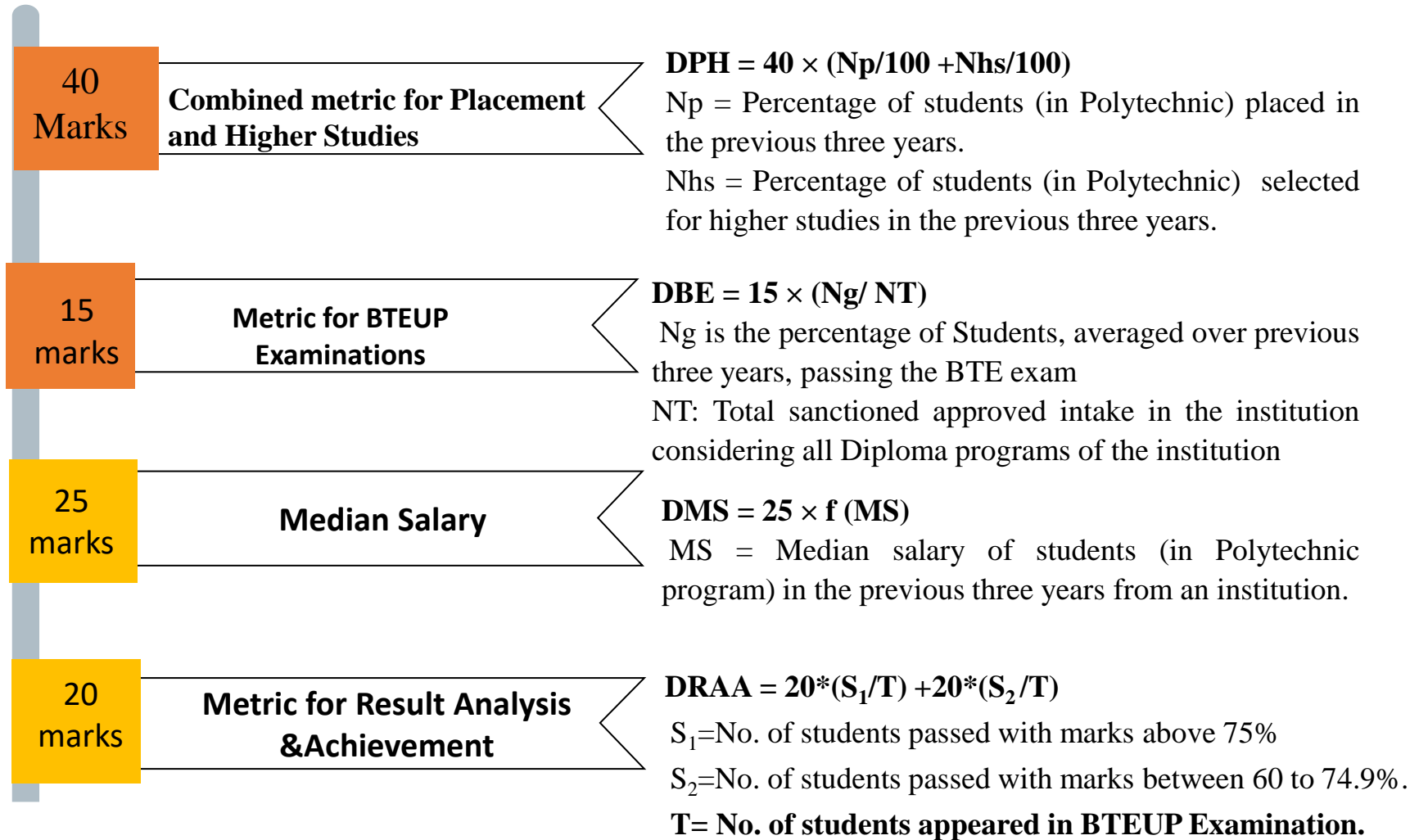
- ❖ **Presently there are none Polytechnic institute accredited from NBA. This proposed parameter for evaluation of the institute for ranking promoting the Polytechnic Institute to be accredited by NBA.**

4. DIPLOMA OUTCOME



Diploma Outcome

Total Marks=100
Ranking weight: 0.25



This parameter forms the ultimate test of the effectiveness of the core teaching/learning.

DO = DPH (40) + DBE (15) + DMS (25) + DRAA (20)

5. RESEARCH AND PERCEPTION

Total Marks: 100

Ranking weight: 0.10

A. Research and Professional Practice (RP): (60 marks)

- i) Combined metrics for Publications (PU)-20,
- ii) IPR and Patents (IPR)-20 marks,
- iii) Footprint of Projects and Professional Practice (FPPP):20 marks

$$\mathbf{RP = PU(20) + IPR(20) + FPPP(20)}$$

B. Perception (PR): 40 marks

Peer Perception: (20Marks): 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

Feedback: (20Marks): This is to be done by feedback mechanism conducted for Institute at Director and Joint Director Levels.

$$\mathbf{Perception (PR): PP(20)+FB(20)}$$

RECOMMENDATIONS FROM UNNAYAN COMMITTEE

- ❖ Ranking of Polytechnic institutions should be based on the parameters. The overall score can take a maximum value of 100.
- ❖ The parameters must be updated time by time.
- ❖ It is recommended **State Ranking Authority** for the execution of State Ranking framework for the Polytechnic institutions is required.
- ❖ Different committees are required for **State Ranking Authority**.

RECOMMENDATIONS FROM EXPERT COMMITTEE

- ❖ Conduct a pilot run with Government & Private Polytechnic.
- ❖ Include Entrepreneurship in Research and Perception or diploma outcome section.
- ❖ Include Teaching-Learning Process or Innovation in teaching as one of the parameters in Teaching, Learning & Resource section.
- ❖ Provide reward/incentive to any polytechnic which shows progress in rating from the last year.
- ❖ Include technical capability as one of the parameter both in teaching, learning & infrastructure.
- ❖ Create a team within the department that would be responsible for SIRF but the ranking activity would be carried out by third party.
- ❖ Capture outreach (contribution to society) as one of the parameters in the framework – create separate section.
- ❖ Include heterogeneity (admission of students from other districts of the state) as one of the parameters.
- ❖ Higher weightage should be given to industry interface.
- ❖ There should be an autonomous body for giving ranking to institute.

THANK YOU