Akhila Bharatiya Shiksha Samagam

29-30th July

National Institutional Ranking Framework

K.Umamaheshwar Rao,

Director NIT Rourkela, Odisha

National Institutional Ranking Framework

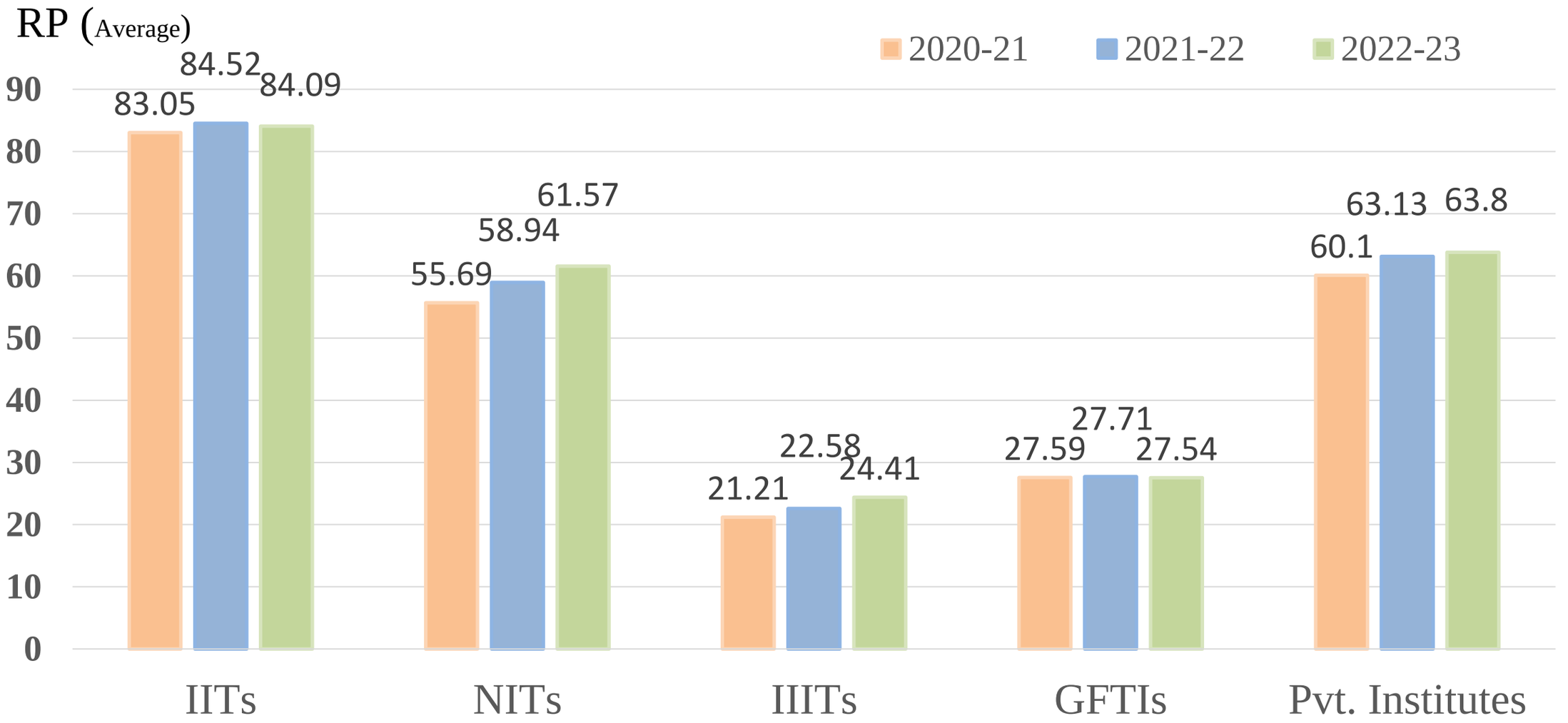
NIRF helps the institutions to build a brand and wide publicity, and is a reliable tool

- in valuing perception,
- in attracting industry for better placement of the students, and
- for students to know about the institutions.

Parameters which influence NIRF ranking the most:

Parameters	Sub-parameters	Contribution to total score
Teaching Learning & Resources-TLR (30% weightage)	• Faculty-Student ratio & preferably permanent faculty • Financial Resources & Utilization	9 (out of 100) 9 (out of 100)
Research & Professional Practices-RP (30% weightage)	• Publication • Quality publication	12 (out of 100) 12 (out of 100)
Graduate Outcome-GO	• Placement	8 (out of 100)
Outreach and inclusivity - OI	Women students; Women Faculty including women members in senior administrative positions, such as Heads of Departments, Deans	6 (out of 100)
Perception-PR	• Perception	10(Out of 100)
The total score of these sub-parameters on final score		66%

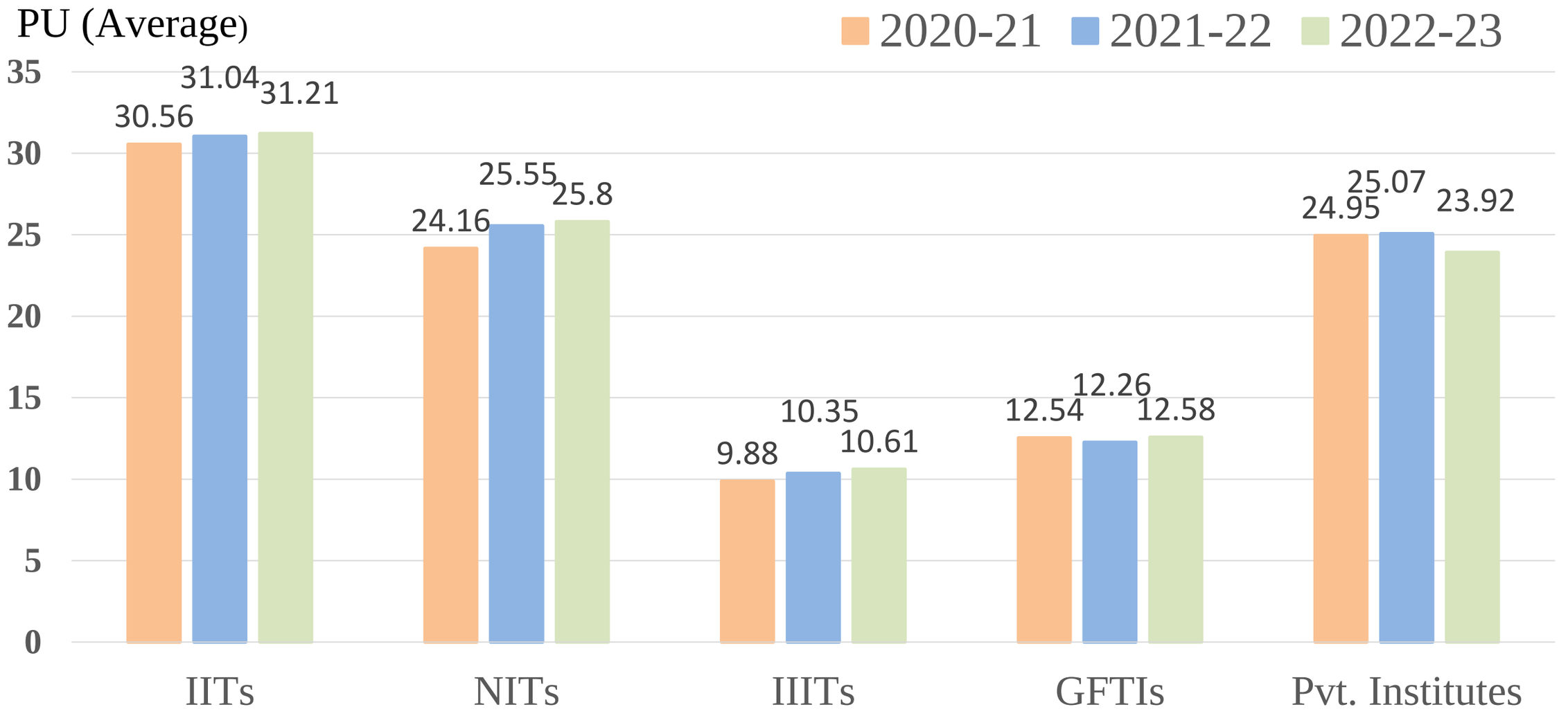
Comparison of Research Practice in Technical inst. (RP)



GFTIs = Government Funded Technical Institutes

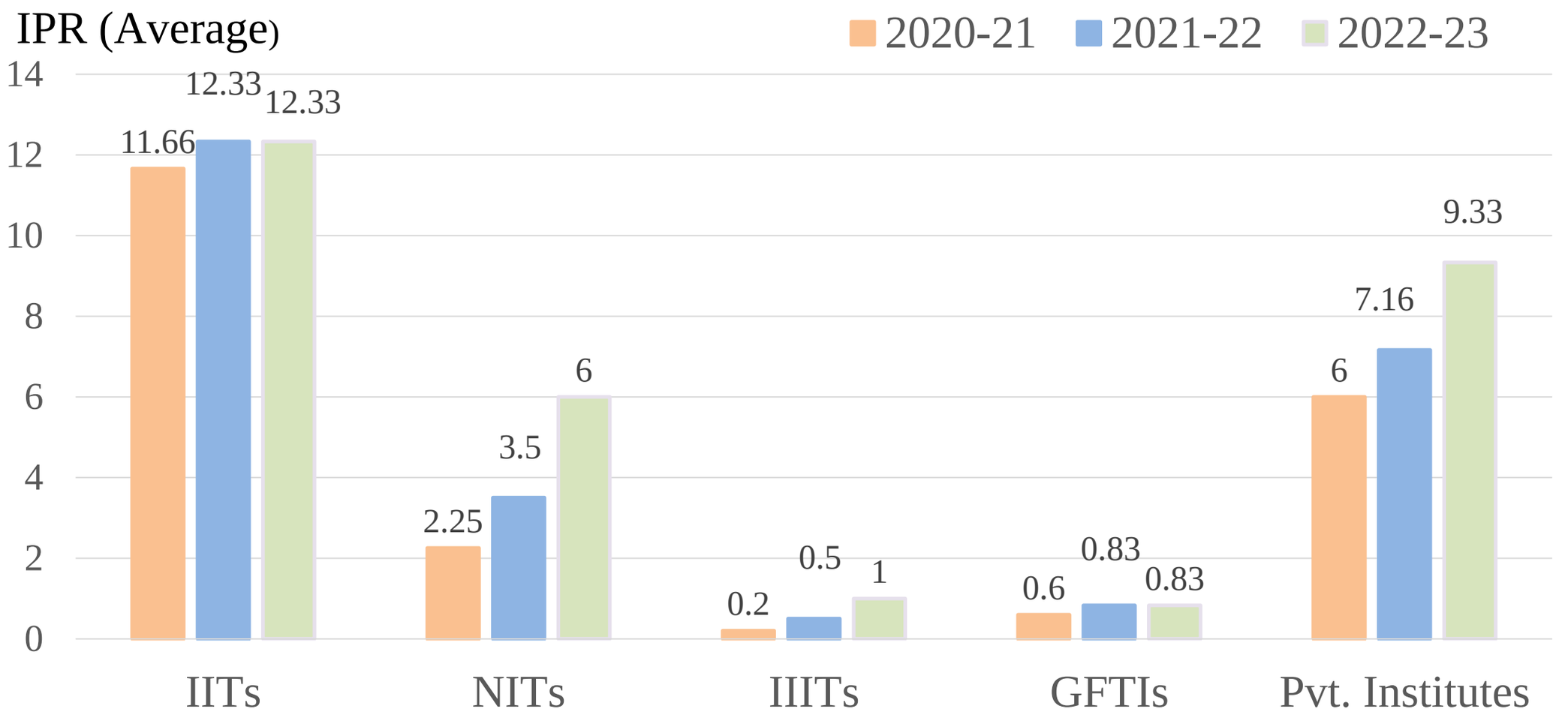
Data Obtained from NIRF

Comparison of Research Publication (PU)



Data Obtained from NIRF

Comparison of Intellectual Property Rights (IPR)



Data Obtained from NIRF

Interlinkage: Research and innovation ⟺ improved NIRF ranking

Increasing Research Funding:
- Govt. agencies
- Industry collaborations
- International research grants

Establishing Research Centers and Labs:
- Specialized research centers and laboratories
- Infrastructural development

Promoting Interdisciplinary Research:
- Encouraging collaboration between different engineering departments and even other fields like science, social sciences, and humanities

Encouraging Industry-Academia Collaboration:
- Addresses real-world problems
- Nurtures innovation
- Joint projects

Interlinkage: Research and innovation ⟺ improved NIRF ranking

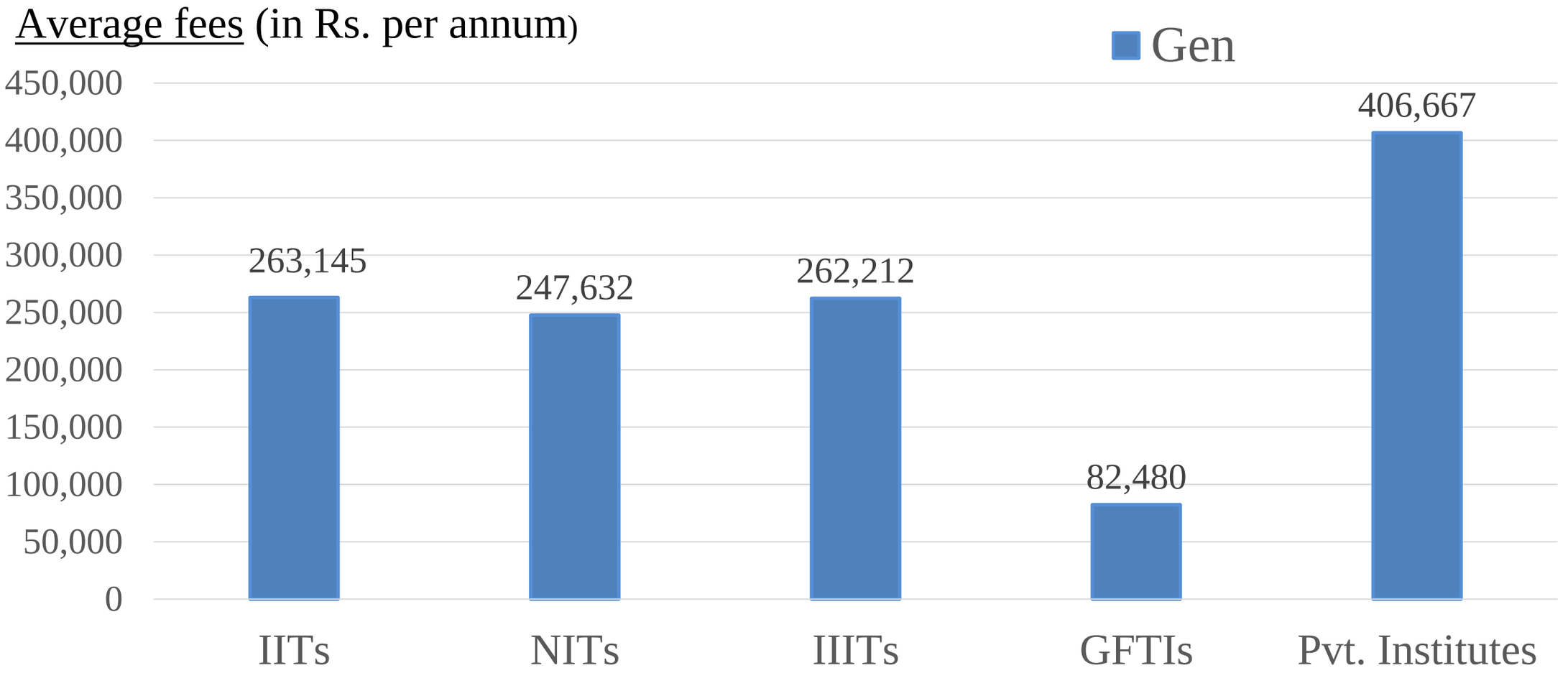
Attracting Quality Faculty:
- Recruiting accomplished faculty members
- Renowned researchers

Strengthening Publication Records:
- Increase in publications
- High-quality publications

Hosting Conferences and Workshops:
- Organizing national and international conferences
- Govt. funded Workshops, Short-term courses

Promoting Intellectual Property Rights (IPR) Protection:
- Encouraging researchers to patent their inventions and protect intellectual property

Fee structure in Higher technical institutes for UG

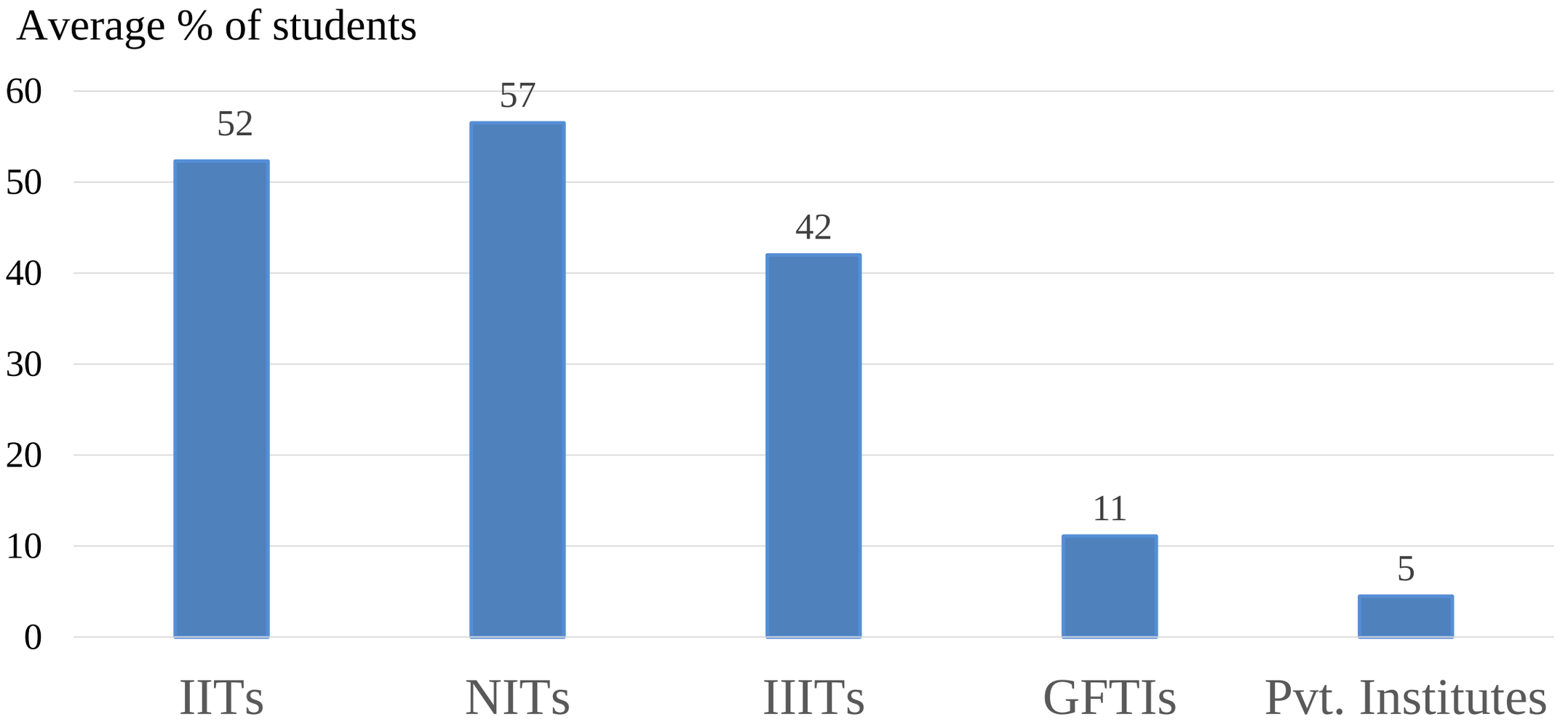


Data Obtained from Institute Websites

Scholarships available

- Tuition fees waiver for different category students is available in IITs, NITs, IIITs and GFTIs
- Majorly tuition fees waiver is provided based on the following criterion:
  - 100 % tuition fee waiver for SC/ST/PwD
  - 100 % tuition fee waiver for UR/EWS/OBC-NCL whose family income < Rs. 1.0 lakh p.a
  - 66 % tuition fee waiver for UR/EWS/OBC-NCL whose family income < Rs. 5.0 lakh p.a
- In addition to the above-mentioned tuition fee waiver, various institute specific scholarships are also available.
- However, such fees waiver is very much limited in private institutes.
- % of students receiving scholarships is provided in the next slide

Percent students availing scholarships



Based on NIRF data

Digital Technical for an affordable quality education

- The students who cannot join the Higher Technical institutions, can still get the opportunity to access quality education through the digitalization of technical educations.
- MOE, Govt. of India has initiated various schemes through online platform to make sure quality education is available to all.
- Making Education affordable to all.

ADVANTAGES OF DIGITAL EDUCATION FOR STUDENTS

PERSONALIZED LEARNING

MAKES STUDENTS ACQUAINTED WITH DIGITAL TECHNOLOGIES AND TOOLS

DEEPER INVOLVEMENT OF TEACHERS & PARENTS

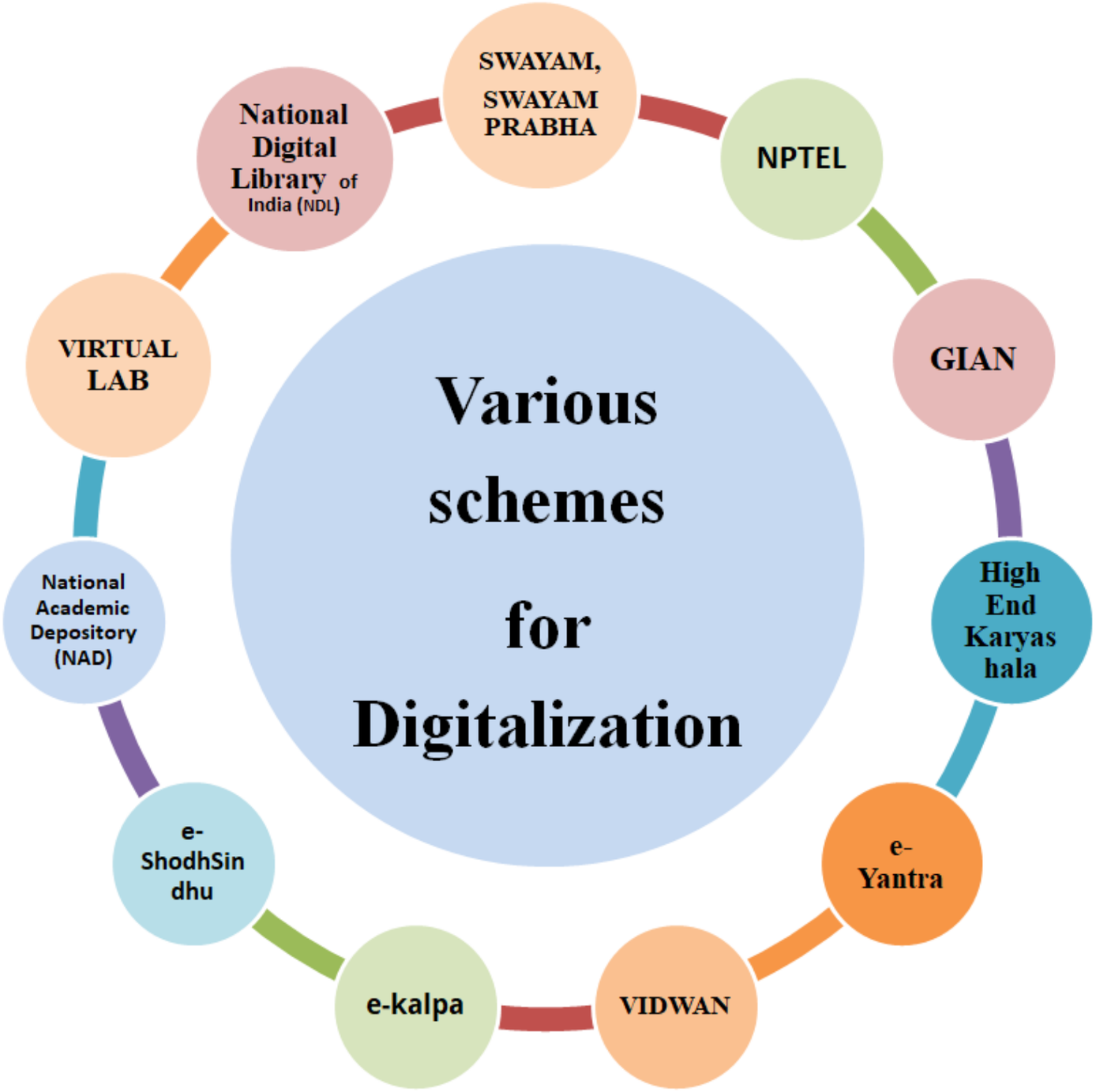
BETTER ENGAGEMENT RATE

MAKES STUDENTS MORE ACCOUNTABLE

AFFORDABLE EDUCATION TO ALL

MOTIVATES STUDENTS

MAKES STUDENTS SMARTER


Various schemes for Digitalization
SWAYAM, SWAYAM PRABHA
NPTEL
GIAN
High End Karyashala
e-Yantra
VIDWAN
e-kalpa
e-ShodhSindhu
National Academic Depository (NAD)
VIRTUAL LAB
National Digital Library of India (NDL)

Digital course initiative by GoI

SWAYAM

‘Study Webs of Active Learning for Young Aspiring Minds’ (**SWAYAM**) is India’s owns MOOCs’ platform offering free online courses on almost all the disciplines. A program initiated by Government of India, designed to achieve the three cardinal principles of Education Policy viz., **access, equity and quality** has the objective to ensure access to the best teaching learning resources to all, including the most disadvantaged.

SWAYAM PRABHA

SWAYAM PRABHA is an initiative to provide 32 high quality educational channels through DTH (Direct to Home) across the length and breadth of the country on 24X7 basis.

NPTEL

NPTEL (National Program on Technology Enhanced Learning), is a joint venture of the IITs and IISc, funded by the Ministry of Education (MoE) Government of India. NPTEL is offering close to 600+ courses for certification every semester in about 22 disciplines.

Digital course initiative by GOI

VIDWAN

VIDWAN is the premier database of profiles of scientists / researchers and other faculty members working at leading academic institutions and other R & D organization involved in teaching and research in India.

GIAN

Govt. of India approved a new program titled Global Initiative of Academic Networks (GIAN) in Higher Education aimed at tapping the talent pool of scientists and entrepreneurs, internationally to encourage their engagement with the institutes of Higher Education in India so as to augment the country's existing academic resources, accelerate the pace of quality reform, and elevate India's scientific and technological capacity to global excellence

Karyashala

DST is offering funding to various technical institutes to conduct high end workshop to disseminate the research and technical knowledge for the benefit of the country.

Digital course initiative by GOI

FOSSEE

FOSSEE (Free/Libre and Open Source Software for Education) project promotes the use of FLOSS tools in academia and research. The FOSSEE project is part of the National Mission on Education through Information and Communication Technology (ICT), Ministry of Education (MoE), Government of India. Below is the list of projects which are promoted by FOSSEE.

E- Kalpa

The project on 'Creating Digital-learning Environment for Design' also called ‘E-Kalpa' is sponsored by the Ministry of Human Resources, Government of India as part of the National Mission in Education through Information and Communication Technology. The main intention is the creation of new learning environments that will provide access to acquisition of critical knowledge, skills, and abilities in the field of design.

SHODH GANGA

Under the initiative called “ShodhGangotri”, research scholars/research supervisors in universities are requested to deposit an electronic version of the approved synopsis submitted by research scholars to the universities for registering themselves for the Ph.D. programme now it is expanded to MRPs/PDFs/Emeritus Fellowship, etc.

Thank you