

MoE's
INNOVATION CELL
(GOVERNMENT OF INDIA)



**Ministry of
Education**
Government of India



National Institutional Ranking Framework for Innovation

REPORT

2023

nirf-Innovation

National Institutional Ranking Framework for Innovation
Ministry of Education, Government of India

Introduction:

In the year 2018, the Ministry of Education, Govt. of India has initiated 'Atal Ranking of Institutions on Innovation Achievements (ARIIA)' to systematically rank education institutions and universities primarily on innovation related indicators. ARIIA considers all 7 major components are essentially required for building inclusive innovation and start-up ecosystems in Higher Educational Institutions (HEIs) as parameters. It measures the ecosystem building efforts in institutions by using 22 Key Performance Indicators (KPIs) in aligned global indicators.

So far, three editions of innovation ranking exercises have been successfully completed. ARIIA framework is providing directional support to more than 1500+ HEIs in benchmarking their ecosystems and identifying their core strength and weak areas for building a strong, vibrant and inclusive innovation-start-up ecosystem in campuses. Innovation ranking framework is also helping in reallocation and mobilisation of resources to streamline and strengthen the current innovation-start-up ecosystem and bring impact in the long-run.

The 4th edition of ARIIA is renamed as 'NIRF-Innovation' ranking and it has adopted the framework, parameters and Key Performance Indicators (KPIs) of ARIIA. This 4th edition has received participation from 1417 HEIs with very good representation from 6 different types of institutions. Out of which, 340 HEIs are non-technical institutions. Category wise institution participation detail is as below;

Sr. No.	Institution Category	Total HEIs	Technical HEIs	Non-Technical HEIs
1	Institute of National Importance and Central Universities/CFTIs	82	75	7
2	University & Deemed to be University (Govt. & Govt. Aided)	41	35	6
3	Affiliating Universities	23	18	5
4	Colleges/Institutes (Govt. & Govt. Aided)	140	89	51
5	University & Deemed to be University (Private/Self-Financed)	136	130	6
6	Colleges/Institutes (Private/Self-Financed)	995	734	261
Total		1417	1077	340

Ranking Framework, Parameters & Weightages: The NIRF-Innovation Ranking Framework has 7 broad parameters with weightages are as below:

NIRF Innovation Ranking Framework: Parameters	Weightage %
Parameter 1: Policy and Institutionalization of I&E Activities in HEIs	10
Parameter 2: Teaching and Learning Courses on Innovation and Entrepreneurship	10
Parameter 3: Pre-Incubation and Incubation Infrastructure & Facilities are Currently in Operation to Promote I&E Agenda	10
Parameter 4: Generation and Support of Ideas/Prototypes /Innovations at HEI and Recognition received	20
Parameter 5: Start-ups/Ventures Established and Supported at HEI and & Recognitions Received	20
Parameter 6: Collaboration with other Incubation Units, HEIs and Industry Associations to Strengthen Services and Support to Innovation & Start-ups at HEI	5
Parameter 7: Intellectual Property (IP), Generation and Commercialization	25
Total	100

Ranking Framework: Key Performance Indicators

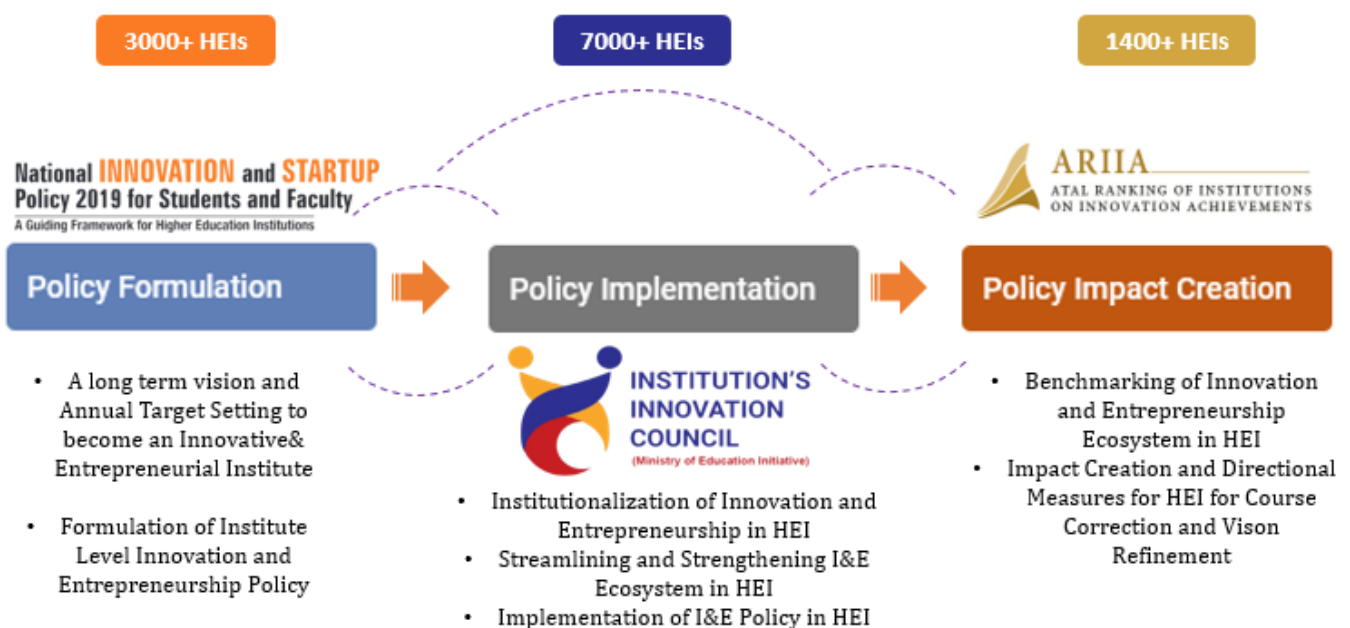
The NIRF-Innovation Ranking Framework captures data by using 22 Key Performance Indicators under seven broad parameters with weightages are as below;

NIRF Innovation Ranking Framework: 7 Parameters & 22 Key Indicators		Weightage	%
Parameter 1: Policy and Institutionalization of I&E Activities in HEIs (Academic Calendar Year 2020-21 & 2021-22)		0.10	100
1.1	Adoption Level of Innovation and Entrepreneurship (I&E) Policy in HEIs: Registration; Policy Formulation; Policy Implementation		25
1.2	Performance Level of Institution's Innovation Councils (IICs) Established in HEIs: Scores and Stars Obtained		40
1.3	Activeness of Trained Innovation Ambassadors in Driving Campus I&E Ecosystems in HEIs: Trained IA/HEI and Nos of Prescribed Activities undertaken by IA		25
1.4	Participation in KAPILA/SIH Program		10
Parameter 2: Teaching and Learning Courses on Innovation and Entrepreneurship: (AY 2020-21 & 2021-22):		0.10	100
2.1	Credit Courses in Innovation / Entrepreneurship / Intellectual Property offered by the HEI at Diploma/ UG/ PG/ PhD level.		60
2.2	Short-term Certificate Programs/MDP/EDP/FDP in Innovation/ Entrepreneurship/IPR of minimum 30 contact hours of duration offered by the HEI.		40
Parameter 3: Pre-Incubation and Incubation Infrastructure & Facilities are Currently in Operation to Promote I&E Agenda (AY 2020-21 & 2021-22):		0.10	100
3.1	Existence of Pre-Incubation Facility (Tinkering Lab/Makers' Space/Design Centre/New Gen IEDC/IEDC/EDC/Innovation Cell/Start-up Cell) (>= 600 Sq. Ft. Floor Area)		30
3.2	Existence of Incubation Facility (>= 1500 Sq. Ft. Floor Area)		50
3.3	Existence of IPR Cell / Patent Facilitation Unit / Technology Transfer Centre at the institute		20
Parameter 4: Generation and Support of Ideas/Prototypes /Innovations at HEI and Recognition received (AY 2020-21 & 2021-22):		0.20	100
4.1	Number of Innovations/Prototypes (in TRL 4-9) Developed with Support of HEI/Incubation Unit		80
4.2	Awards won by innovations at State/National/International Level Competitions Organized by Central/State Govt. Dept. or Agencies/ International Corporations/Institute of National Importance/National Industry Associations such as CII. FICCI/ASSOCHAM etc.		20
Parameter 5: Start-ups/Ventures Established and Supported at HEI and & Recognitions Received (AY 2020-21 & 2021-22):		0.20	100
5.1	Start-ups/SME Ventures with CIN / Entrepreneurial Ventures with at least GST number Established with Support of HEI/Incubation Unit		30
5.2	Faculty as Founder or Co-Founder with DIN for in any Start-up/SME Venture (with CIN / Entrepreneurial Ventures with at least GST number) in HEI/Incubation Unit		20
5.3	Angel and VC Investments Raised by Start-ups/Ventures		15
5.4	Start-ups/SME Ventures Reached to an Annual Turnover (Revenue) Size of Rs. 50 Lakhs		15
5.5	Awards won by Start-ups/SME Ventures at State/National /International Level Competitions organized by Central/State Govt. Dept. or Agencies/International Corporations/Institute of National Importance/ National Industry Associations such as CII. FICCI/ASSOCHAM etc.		20

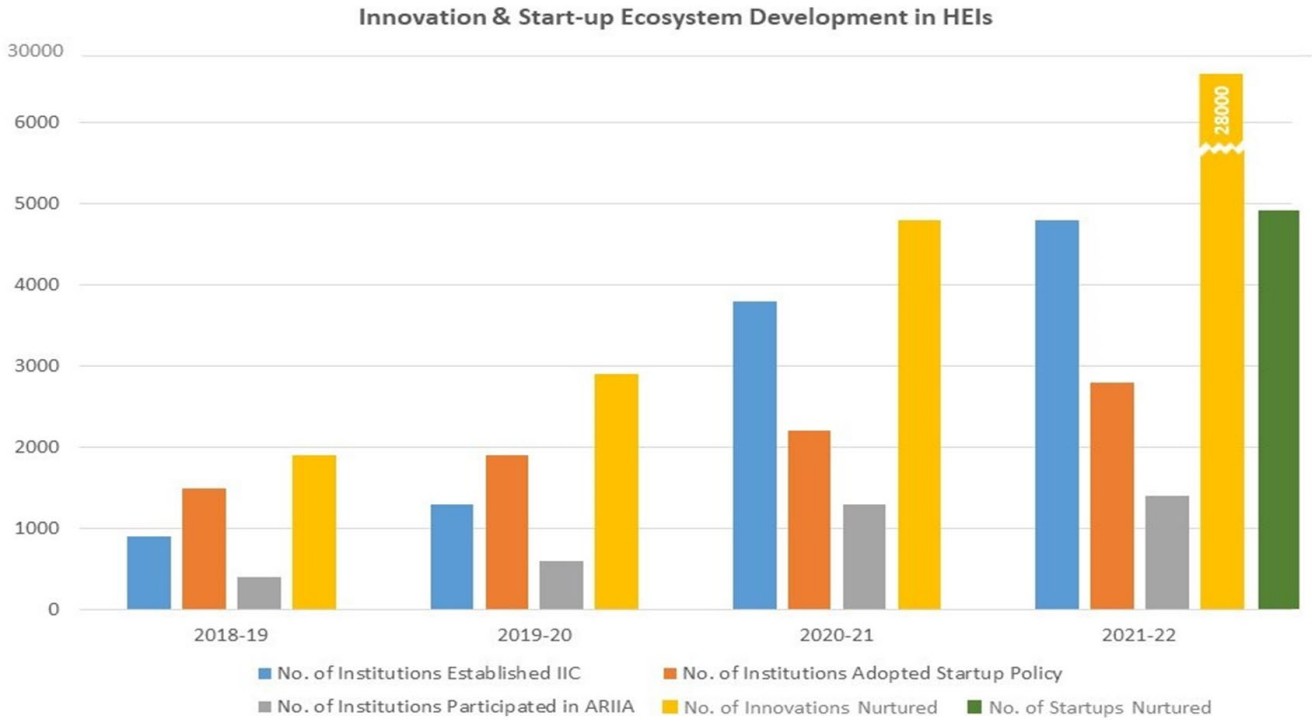
Parameter 6: Collaboration with Other Incubation Units, HEIs and Industry Associations to Strengthen Better Services and Support to Innovation & Start-ups at HEI (AY 2020-21 & 2021-22)		0.05	100
6.1	Formal Collaboration Linkages (MoUs) with Higher Educational Institutions/ Incubation units/Research Parks/ATLs in Schools to Provide/Receive Handholding/mentoring Support exclusively for promoting innovation and start-up in your HEI.		50
6.2	Formal Collaboration Linkages (MoUs) with Repute Industry Associations/ National Knowledge Agencies and Ecosystem Enablers (Govt. agencies) to promote and support Innovation and Start-up Agenda in campus/region.		50
Parameter 7: Intellectual Property (IP), Generation and Commercialization (Annual Calendar 2020 & 2021):		0.25	100
7.1	Number of Copyrights/Designs Obtained during the Annual Calendar Year 2020 & 2021		15
7.2	Number of Patents Filed during the Annual Calendar Year 2020 & 2021		15
7.3	Number of Patents Published during the Annual Calendar Year 2020 & 2021		20
7.4	Number of Patents Granted during the Annual Calendar Year:2020 & 2021		25
7.5	Number of Technologies (Patents/Non-Patents) Commercialized/Transferred during the Financial Year 2020-21 and 2021-22		25
Total		1.00	700.00

Approach & Multiplier Impact Creation: Integration of Policy Programs

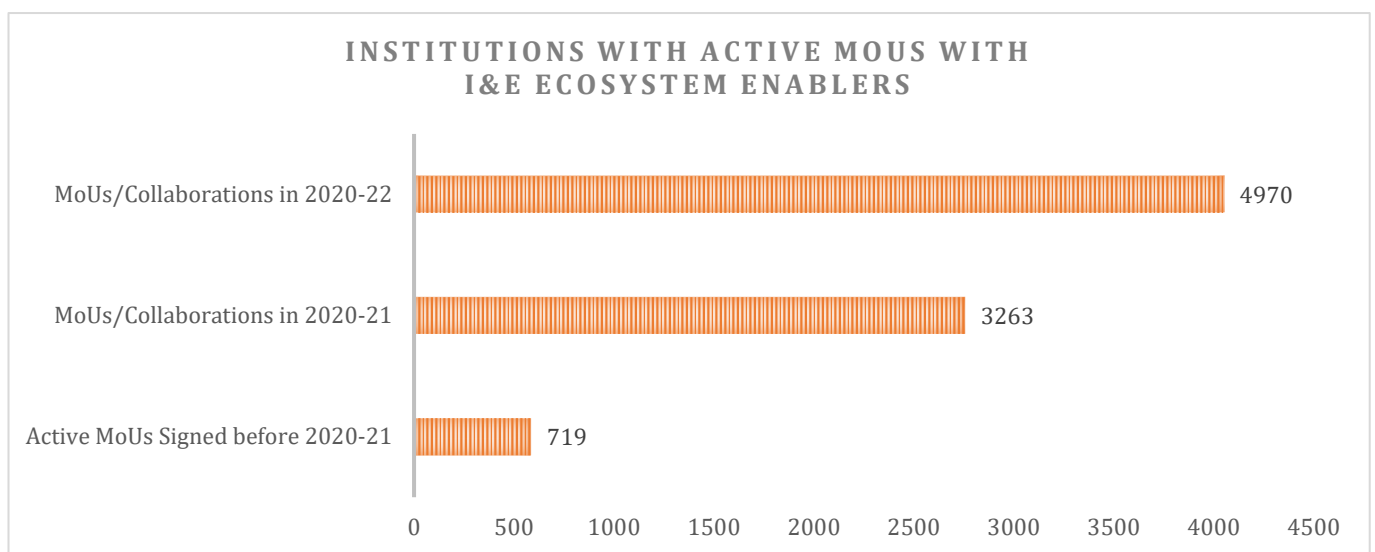
Ecosystem benchmarking practices in HEIs using the NIRF-Innovation Ranking Framework and implementation in integration with other innovation and entrepreneurship initiatives at Ministry of Education such as performance of Institution's Innovation Council (IIC) established in institute and adoption of National Innovation and Start-up Policy (NISP) and YUKTI Innovation Repository (YIR) to create a multiplier impact.



Building a Strong Pipeline of Innovations and Start-ups from HEIs: A Networked System of Innovation Movement

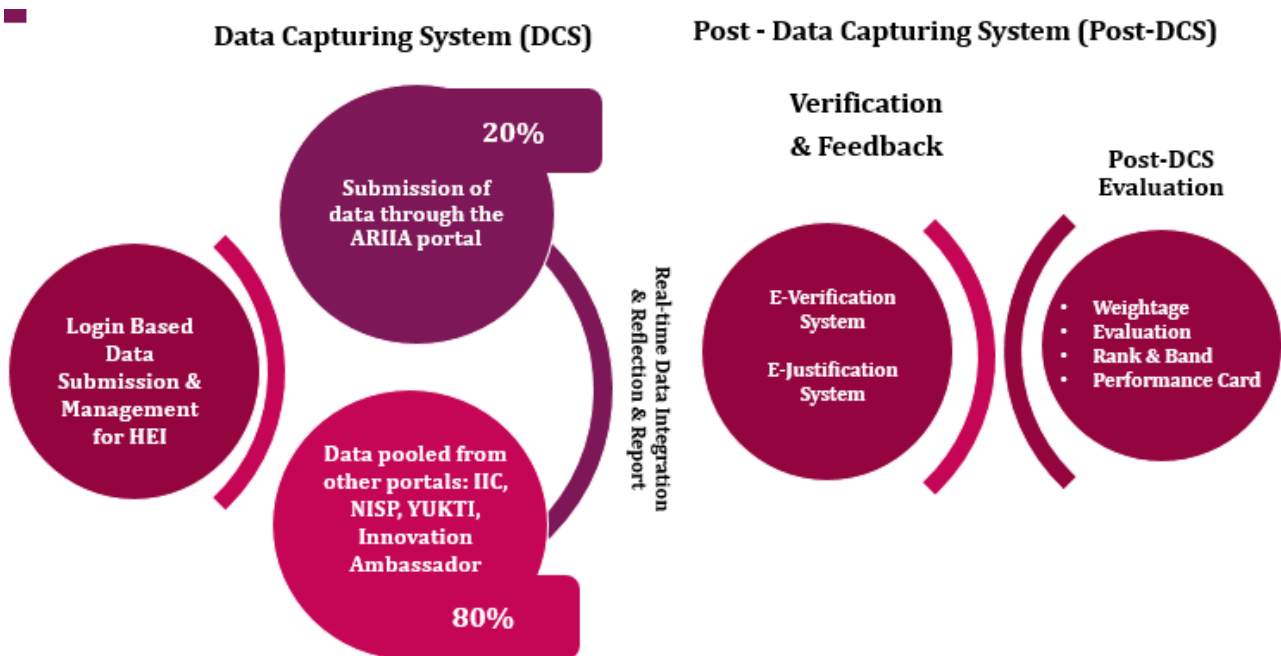


HEIs Collaborate with Diverse Ecosystem Enablers to Strengthen the Services and Support to Innovations and Start-ups in HEIs.



Data Capturing System, Verification and Performance Card:

Institutions submit data using the Data Capturing System (DCS) which facilitates data capturing from HEIs and fetches institution's performance related information from other programs such as IIC, NISP, YUKTI-Innovation Repository, and Innovation Ambassador portals etc. This integration of data capturing and fetching has reduced data submission efforts at the institute level by checking redundancy and increased efficiency in terms of bringing more transparency and more cleaned data verified at the source. Submitted applications go through a multiple stage of screening, verifications and justifications to make it ready for further evaluation based on the weightages assigned to parameters, and Key Performance Indicators (KPIs) to generate ranks and bands. Performance card provides a graphical representation of the institution's overall performance along with parameter and sub-parameters wise strong and weak areas for development with indication of desired average score range for respective components. In the institute's login page, final report, performance card and e-certificate are available for download.



NIRF - Innovation Ranking 2023 HEIs Positioned in the Rank Band of 1-10

Sr. No	Institute ID	AISHE Code	Institute Name	State	Rank
1	ARI-I-1075	U-0517	Indian Institute of Technology Kanpur	Uttar Pradesh	1
2	ARI-U-0456	U-0456	Indian Institute of Technology Madras	Tamil Nadu	2
3	ARI-U-0013	U-0013	Indian Institute of Technology Hyderabad	Telangana	3
4	ARI-I-1074	U-0100	Indian Institute of Technology Delhi	Delhi	4
5	ARI-U-0560	U-0560	Indian Institute of Technology Roorkee	Uttarakhand	5
6	ARI-U-0220	U-0220	Indian Institute of Science	Karnataka	6
7	ARI-U-0306	U-0306	Indian Institute of Technology Bombay	Maharashtra	7
8	ARI-U-0455	U-0455	Indian Institute of Information Technology, Design & Manufacturing, Kancheepuram	Tamil Nadu	8
9	ARI-U-0263	U-0263	National Institute of Technology Calicut	Kerala	8
10	ARI-U-0701	U-0701	Indian Institute of Technology (Banaras Hindu University) Varanasi	Uttar Pradesh	10

NIRF - Innovation Ranking 2023

HEIs Positioned in the Band of 11-50*

Institute ID	Institute Name	State	Institute Category
ARI-U-0496	Aligarh Muslim University	Uttar Pradesh	Institute of National Importance & Central Universities/CFTIs
ARI-U-0497	Amity University	Uttar Pradesh	University & Deemed to be University (Private/Self-Financed)
ARI-U-0006	Andhra University, Visakhapatnam	Andhra Pradesh	An Affiliating University
ARI-U-0444	Avinashilingam Institute For Home Science And Higher Education For Women	Tamil Nadu	University & Deemed to be University (Govt. & Govt. Aided)
ARI-U-0445	B. S. Abdur Rahman Crescent Institute of Science and Technology	Tamil Nadu	University & Deemed to be University (Private/Self-Financed)
ARI-U-0747	Chandigarh University	Punjab	University & Deemed to be University (Private/Self-Financed)
ARI-U-0373	Chitkara University	Punjab	University & Deemed to be University (Private/Self-Financed)
ARI-C-41593	College of Engineering Pune	Maharashtra	Colleges/Institutes (Govt. & Govt. Aided)
ARI-U-0098	Delhi Technological University	Delhi	University & Deemed to be University (Govt. & Govt. Aided)
ARI-U-0374	Dr. B R Ambedkar National Institute of Technology, Jalandhar	Punjab	Institute of National Importance & Central Universities/CFTIs
ARI-A-44753	Dr. SNS Rajalakshmi College of Arts and Science (Autonomous)	Tamil Nadu	Colleges/Institutes (Private / Self-Financed)
ARI-S-88	Entrepreneurship Development Institute of India	Gujarat	Colleges/Institutes (Private / Self-Financed)
ARI-U-0643	Galgotias University	Uttar Pradesh	University & Deemed to be University (Private/Self-Financed)
ARI-U-0513	GLA University, Mathura	Uttar Pradesh	University & Deemed to be University (Private/Self-Financed)
ARI-C-25171	Government Engineering College Bikaner	Rajasthan	Colleges/Institutes (Govt. & Govt. Aided)
ARI-U-0136	Gujarat University	Gujarat	An Affiliating University
ARI-S-8967	Indian Institute of Management Kashipur	Uttarakhand	Institute of National Importance & Central Universities/CFTIs
ARI-U-0053	Indian Institute of Technology Guwahati	Assam	Institute of National Importance & Central Universities/CFTIs
ARI-U-0573	Indian Institute of Technology Kharagpur	West Bengal	Institute of National Importance & Central Universities/CFTIs
ARI-U-0184	Indian Institute of Technology Mandi	Himachal Pradesh	Institute of National Importance & Central Universities/CFTIs
ARI-U-0308	Institute of Chemical Technology	Maharashtra	University & Deemed to be University (Govt. & Govt. Aided)
ARI-U-0458	Kalasalingam Academy of Research And Education	Tamil Nadu	University & Deemed to be University (Private/Self-Financed)
ARI-S-4863	Kalinga Institute of Industrial Technology Khordha	Odisha	University & Deemed to be University (Private/Self-Financed)
ARI-C-16611	KCG College of Technology	Tamil Nadu	Colleges/Institutes (Private / Self-Financed)
ARI-C-212	L. D. College of Engineering	Gujarat	Colleges/Institutes (Govt. & Govt. Aided)



ARI-C-1331	M. S. Ramaiah Institute of Technology	Karnataka	Colleges/Institutes (Private / Self-Financed)
ARI-C-45291	M.Kumarasamy College of Engineering	Tamil Nadu	Colleges/Institutes (Private / Self-Financed)
ARI-C-1345	P.E.S. College of Engineering, Mandya	Karnataka	Colleges/Institutes (Govt. & Govt. Aided)
ARI-U-0078	Panjab University	Chandigarh	An Affiliating University
ARI-U-0763	Parul University	Gujarat	University & Deemed to be University (Private/Self-Financed)
ARI-U-0470	Periyar University	Tamil Nadu	An Affiliating University
ARI-C-41124	PSG College of Arts and Science	Tamil Nadu	Colleges/Institutes (Govt. & Govt. Aided)
ARI-C-37013	PSG College of Technology	Tamil Nadu	Colleges/Institutes (Govt. & Govt. Aided)
ARI-U-0541	Sharda University	Uttar Pradesh	University & Deemed to be University (Private/Self-Financed)
ARI-U-0200	Sher-e-Kashmir University of Agricultural Science & Technology of Kashmir, Srinagar	Jammu and Kashmir	University & Deemed to be University (Govt. & Govt. Aided)
ARI-C-36995	Sri Krishna College of Engineering And Technology	Tamil Nadu	Colleges/Institutes (Private / Self-Financed)
ARI-C-16476	Sri Sai Ram Institute of Technology	Tamil Nadu	Colleges/Institutes (Private / Self-Financed)
ARI-U-0489	Vel Tech Rangarajan Dr. Sagunthala R & D Institute of Science and Technology	Tamil Nadu	University & Deemed to be University (Private/Self-Financed)
ARI-U-0490	Vellore Institute of Technology	Tamil Nadu	University & Deemed to be University (Private/Self-Financed)
ARI-I-1015	Vishwakarma Institute of Technology	Maharashtra	Colleges/Institutes (Private / Self-Financed)

HEIs Positioned in the Band of 51-100*

Institute ID	Institute Name	State	Institute Category
ARI-C-10224	Aarupadai Veedu Institute of Technology	Tamil Nadu	Colleges/Institutes (Private / Self-Financed)
ARI-C-36984	Bannari Amman Institute of Technology	Tamil Nadu	Colleges/Institutes (Private / Self-Financed)
ARI-C-1406	C M R Institute of Technology	Karnataka	Colleges/Institutes (Private / Self-Financed)
ARI-C-10342	Chandigarh Engineering College	Punjab	Colleges/Institutes (Private / Self-Financed)
ARI-C-1413	Dayananda Sagar College of Engineering	Karnataka	Colleges/Institutes (Private / Self-Financed)
ARI-A-44489	Dr MGR Educational and Research Institute	Tamil Nadu	University & Deemed to be University (Private/Self-Financed)
ARI-U-0938	Dr. Vishwanath Karad MIT World Peace University Pune	Maharashtra	University & Deemed to be University (Private/Self-Financed)
ARI-C-37099	Erode Sengunthar Engineering College	Tamil Nadu	Colleges/Institutes (Private / Self-Financed)
ARI-C-27091	Francis Xavier Engineering College	Tamil Nadu	Colleges/Institutes (Private / Self-Financed)
ARI-C-18817	G H Raisonni College of Engineering, Nagpur	Maharashtra	Colleges/Institutes (Private / Self-Financed)
ARI-C-46904	Goel Institute of Technology And Management, Lucknow	Uttar Pradesh	Colleges/Institutes (Private / Self-Financed)
ARI-U-0555	Graphic Era University	Uttarakhand	University & Deemed to be University (Private/Self-Financed)

ARI-A-44420	IIMT University	Uttar Pradesh	University & Deemed to be University (Private/Self-Financed)
ARI-C-19706	Institute of Aeronautical Engineering	Telangana	Colleges/Institutes (Private / Self-Financed)
ARI-C-34048	K. J. Somaiya Institute of Engineering And Information Technology	Maharashtra	Colleges/Institutes (Private / Self-Financed)
ARI-C-39247	K.S.Rangasamy College of Technology	Tamil Nadu	Colleges/Institutes (Private / Self-Financed)
ARI-U-0459	Karpagam Academy of Higher Education	Tamil Nadu	University & Deemed to be University (Private/Self-Financed)
ARI-U-0460	Karunya Institute of Technology and Sciences	Tamil Nadu	University & Deemed to be University (Private/Self-Financed)
ARI-C-46111	KIET Group of Institutions	Uttar Pradesh	Colleges/Institutes (Private / Self-Financed)
ARI-U-0020	Koneru Lakshmaiah Education Foundation (Deemed to be University)	Andhra Pradesh	University & Deemed to be University (Private/Self-Financed)
ARI-C-37065	Kongu Engineering College	Tamil Nadu	Colleges/Institutes (Private / Self-Financed)
ARI-C-36999	KPR Institute of Engineering and Technology	Tamil Nadu	Colleges/Institutes (Private / Self-Financed)
ARI-U-0379	Lovely Professional University	Punjab	University & Deemed to be University (Private/Self-Financed)
ARI-U-0234	Manipal Academy of Higher Education-Manipal	Karnataka	University & Deemed to be University (Private/Self-Financed)
ARI-C-27058	Mepco Schlenk Engineering College	Tamil Nadu	Colleges/Institutes (Private / Self-Financed)
ARI-U-0891	MIT Art, Design and Technology University, Pune, India	Maharashtra	University & Deemed to be University (Private/Self-Financed)
ARI-C-19753	MLR Institute of Technology	Telangana	Colleges/Institutes (Private / Self-Financed)
ARI-C-19569	Padmasri Dr. B.V. Raju Institute of Technology	Telangana	Colleges/Institutes (Private / Self-Financed)
ARI-U-0147	Pandit Deendayal Energy University	Gujarat	University & Deemed to be University (Private/Self-Financed)
ARI-C-16620	Panimalar Engineering College	Tamil Nadu	Colleges/Institutes (Private / Self-Financed)
ARI-C-16497	R. M. K. College of Engineering and Technology	Tamil Nadu	Colleges/Institutes (Private / Self-Financed)
ARI-C-16614	R.M.K. Engineering College	Tamil Nadu	Colleges/Institutes (Private / Self-Financed)
ARI-C-16626	Rajalakshmi Engineering College	Tamil Nadu	Colleges/Institutes (Private / Self-Financed)
ARI-C-45287	Rathinam Technical Campus	Tamil Nadu	Colleges/Institutes (Private / Self-Financed)
ARI-U-0725	Reva University	Karnataka	University & Deemed to be University (Private/Self-Financed)
ARI-U-0473	S.R.M. Institute of Science and Technology	Tamil Nadu	University & Deemed to be University (Private/Self-Financed)
ARI-U-0474	Sathyabama Institute of Science and Technology	Tamil Nadu	University & Deemed to be University (Private/Self-Financed)
ARI-A-44734	Saveetha Institute of Medical And Technical Sciences	Tamil Nadu	University & Deemed to be University (Private/Self-Financed)
ARI-C-18886	Shri Ramdeobaba College of Engineering and Management	Maharashtra	Colleges/Institutes (Private / Self-Financed)
ARI-C-36947	SNS College of Technology	Tamil Nadu	Colleges/Institutes (Private / Self-Financed)
ARI-C-26929	Sree Vidyanikethan Engineering College	Andhra Pradesh	Colleges/Institutes (Private / Self-Financed)

ARI-U-0649	Sri Sri University	Odisha	University & Deemed to be University (Private/Self-Financed)
ARI-C-19780	St. Martin's Engineering College	Telangana	Colleges/Institutes (Private / Self-Financed)
ARI-U-0544	Teerthanker Mahaveer University	Uttar Pradesh	University & Deemed to be University (Private/Self-Financed)
ARI-C-19650	Vardhaman College of Engineering	Telangana	Colleges/Institutes (Private / Self-Financed)
ARI-C-18010	Velagapudi Ramakrishna Siddhartha Engineering College	Andhra Pradesh	Colleges/Institutes (Private / Self-Financed)
ARI-U-0491	Vels Institute of Science Technology & Advanced Studies (VISTAS) -Chennai	Tamil Nadu	University & Deemed to be University (Private/Self-Financed)
ARI-C-41497	Vishwakarma Institute of Information Technology	Maharashtra	Colleges/Institutes (Private / Self-Financed)
ARI-U-0250	Yenepoya University	Karnataka	University & Deemed to be University (Private/Self-Financed)
ARI-C-18254	Yeshwantrao Chavan College of Engineering	Maharashtra	Colleges/Institutes (Private / Self-Financed)

Please visit result dashboard at www.ariia.gov.in for more bands and category wise display of HEIs.

Institute can download the e-certificate, report and performance card from the login page.

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