ATAL RANKING OF INSTITUTIONS ON INNOVATION ACHIEVEMENTS

The buzzword across the globe for the 21st century is 'Innovation'. In the simplest term, Innovation could be defined as converting ideas into new or improved products, processes and services. Undoubtedly, Innovation is about taking inventions to marketplace by translating scientific knowledge into products, services and offerings for economic growth and social development. Even, Hon'ble Prime Minister of India has declared decade 2010-20 as the 'Decade of Innovation', to unleash the creative potential of every Indian. India has already been improving on global stage in terms of Innovation ranking from 86th place, 5 years ago, to 57th place this yeas.

For India to emerge as a global innovation hub, the youth of our country, especially in higher education institutions (HEIs) need to play a crucial role to create a sustainable innovation ecosystem. Hence, ideally all HEIs should have a comprehensive and functional mechanism to convert research into innovations. This ecosystem will encourage, inspire and nurture young students by exposing them to new ideas and processes resulting in innovative activities in their formative years.

To ensure that Innovation is primary fulcrum of all HEIs, Ministry of Human Resource Development (MHRD), Govt. of India is introducing 'Atal Ranking of Institutions on Innovation Achievements (ARIIA)' to systematically rank education institutions and universities primarily on innovation related indicators. ARIIA considers all major indicators which are commonly used globally to rank most innovative education institutions/ universities in the world.

ARIIA ranking will certainly inspire Indian institutions to reorient their mind-set and build ecosystems to encourage high quality research, innovation and entrepreneurship. More than quantity, ARIIA will focus on quality of innovations and will try to measure the real impact created by these innovations nationally and internationally.

Moreover, ARIIA will set tone and direction for institutions for future development for making them globally competitive and in forefront of innovation.

ARIIA will primarily focus on 5 main parameters

Indicators	Weightages
Budget Expenses and Revenue generated through Innovation and entrepreneurship development	20
Facilitating access to advance centres / facilities and entrepreneurial support system	10
Idea to Entrepreneurship	54
Development of Innovation Ecosystems Supported through Teaching & Learning	10
Best innovative solutions Developed In-house for Improving Governance of Your Institution	6
Total	100

"Golden Quadrilateral project connecting North-South-East-West and all weather roads for unconnected villages is an innovation in infrastructure development." **~ Atal Bihari Vajpayee**

Salient Features of ARIIA

- The methodology designed to calculate ARIIA metrics considers all major parameters/ indicators used globally to rank education institutions for innovation output. Additionally, ARIIA also measures some parameters which are India specific considering the current scenario and status of higher education in India.

- The ARIIA parameters are primarily organized in 5 broad heads which are further elaborated into suitable sub-heads. Each broad head has an overall weight assigned to it. Within each head, the various sub-heads also have an appropriate weight distribution.

- To ensure transparency in ranking system, an attempt is also made to identify the relevant data needed to suitably measure the performance score under each sub-head. Emphasis here is on identifying data that the institution can easily provide or is easy to obtain from third party sources and easily verifiable, wherever verification is needed. The overall score is computed based on the weights allotted to each head.

- The overall score can take a maximum value of 100.

- The institutions will be rank-ordered based on their scores.

Eligibility Criteria

All recognized Indian education institutions are eligible to participate in the ARIIA ranking.

"Innovation is born out of cultural excellence. This excellence is a process when an individual or a nation continues to fulfil the dream with calculated risks." **~ A. P. J. Abdul Kalam**

Indicators

- **Total Budget of the Institution**

- **Total Revenue Generated by the Institution**

Section I: Budget Expenses and Revenue Generated Towards Innovation and Entrepreneurship Development (Past 3 Years Data; Mark: 20)

Budget Spent to Cover Expenses for Activities Related to Idea Generation, Pre-Incubation, Incubation and Entrepreneurship Development

- Annual expenditure towards organizing awareness workshops, seminars & training programs related to Innovation, IPR and Start-up Promotion

- Annual expenditure to support students & faculty for participating in national and international level Innovation & Start-up events/ Competitions/ Hackathons

- Annual expenditure towards creation and operation of Innovation Clubs/ Pre-Incubation Facility

- Annual expenditure towards creation and operation of Incubation Facility/ Technology Business Incubators

- Annual Expenditure to support conversion of Ideas into Proof of Concept (POCs)/ Prototype Development

- Annual Expenditure to support hand-holding of Innovation/ POCs/ Prototypes to create Start-ups

- Annual expenditure towards Patent filing & Commercialisation of Innovative Technologies

Total Funds Mobilized/ Generated/ Received to Promote Idea Generation, Pre-Incubation and Incubation Support

- Annual funding received from State and Central Govt. Agencies

- Annual funds contributed by institutes (from its own funds) to promote and support innovation and start-ups activities

- Annual CSR funding received from Private agencies & Industries

- Annual funding received from International Agencies & Foreign institutions

- Annual Angel/ Venture fund channelized to support innovators/ Start-ups

"India is the laboratory to the world." **~ CK Prahalad**

Total Revenue Generated Through Patent Licensing & Tech Transfer

- Total annual revenue generated by the licensing of patents for commercialization
- Total annual revenue generated by the Technology Transfer to commercial organizations (Excluding licensing of patents, consultancy and testing services)
- Total annual revenue generated from Equity/ Share-holding in Graduated Incubatees/ Start-ups supported by your institute/ Incubation Unit
- Total annual revenue generated as fees based services offered to Start-up & Innovators as part of Incubation Support

Section II: Facilitating Access to Advance Centres/ Facilities and Entrepreneurial Support System (Past 3 Years Data; Marks: 10)

- HPC/ Super Computing Centre
- Design/ Modelling/ Simulation centre
- Media and Graphic Lab
- Clean-room Facility
- Rapid prototyping facility
- Tinkering lab
- Innovation centre/ Innovation Clubs
- Incubation Centre
- STEP/ Research Park
- Others

Section III: Idea to Entrepreneurship (Past 3 Years Data; Mark: 54)

Awareness Creation Regarding Innovation, IPR and Entrepreneurship Development

- Awareness/ Motivational Programs
- Workshops/ Training/ Seminars/ Conferences
- Exhibitions of Innovative Products/ E-Summits/ Tech-Fests
- Business Plan Development Competition
- Hackathons

"Innovation is a generation, admission and realization of new ideas, products, services and processes"
~ Rosabeth Moss Kanter

Idea Generation, Pre-Incubation, Incubation Support and Entrepreneurship Development

Idea Generation

- The Number and List of 'Innovative Students' Projects' recognized at State/ National level by renowned Agencies or have won prestigious award
- The Number and List of 'Innovative Students' Projects' recognized internationally with prestigious renowned Agencies/ Award
- Number and list of M. Tech/ Ph.D. Thesis resulting in innovative products/ processes or commercial technologies
- Number and list of POC/ Prototype successfully developed as Innovative products/ processes/ technologies
- Number and list of POCs/ Prototypes/ Innovations formally taken forward as Start-ups
- Number and list of patented technologies formally taken forward as Start-ups
- Number and list of Student/ Alumni/ Faculty Start-ups received incubation support in any incubators for minimum period of 1 year
- Number and list of resident incubatees/ Alumni Start-ups with CIN registration
- Number and list of incubatees successfully graduated from incubator with annual turnover of 50 lakhs or 10 employees for a sustainable period of two years
- Number and list of co-incubation partnerships made with other institutions (without incubators) for incubation support

Patents and Technology Transfer (Past 6 years Data)

- Number of Patents Published in India
- Number of Patents Granted in India
- Number of Global Patents published
- Number of Global Patents Granted
- Number of Joint Patents with Industry
- Citations of your Institution's research work in other published patents
- Number of Granted Patent Cited by other patents and publications
- Number of patented technologies commercialized
- Number of technology developed in-house (Non Patented technologies) and transferred to industry for commercialization

"Purposeful innovation results from analysis, systematic review, and hard work; it can be taught, replicated and learned."
~Peter Drucker

Awards & Recognition Earned by Students & Faculty at National and International Level Participating in Innovation & Start-Up Events/ Competitions

- Number and List of students/ teams winning awards at National level ideas competitions, Hackathons Tech-Fests, etc.
- Number and List of students/ teams winning awards at International level in Ideas competitions, Hackathons, Tech-Fests, etc.
- Number and List of awards to institution/ faculty won at National & international level

Section – IV: Development of Innovation Ecosystem Through Teaching & Learning (Past 3 Years Data; Marks: 10)

- Number of Credit Courses, Electives, short term courses offered by the institution on design thinking, Cognitive skill development, IPR, Innovation & Entrepreneurship development
- % of Faculty with Start-up/ Entrepreneurship experience
- Number and List of Faculty Members as 'Board of Directors' on start-up with DIN number

Section –V: Best innovative solutions Developed In-house for Improving Governance of Your Institution (Past 3 Years Data; Mark: 6)

Describe Best Two Innovative Solutions in any of the Categories Below

- Innovative solutions/ approaches developed and deployed in your institution for Increasing Energy conservation
- Innovative solutions/ approaches developed and deployed in your institution for efficient Waste Management
- Innovative solutions/ approaches developed and deployed in your institution for water conservation and management
- Innovative solutions/ approaches developed and deployed in your institution for knowledge management and sharing with students and faculties
- Innovative solutions/ approaches developed and deployed in your institution for enhancing the security and surveillance of your institution
- Innovative solutions/ approaches developed and deployed in your institution to enhance the creativity and cognitive skills of students

"Failure is an option here. If things are not failing, you are not innovating enough" **~ Elon Musk**

MIC

"ARIIA will ensure that Innovation is the epicentre of Indian Education"

~ Prakash Javadekar
Minister for HRD
Govt. of India

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ARIIA

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