



# ARIIA

## ATAL RANKING OF INSTITUTIONS ON INNOVATION ACHIEVEMENTS



**MoE**  
Ministry of Education  
Government of India

### Submitted Institute Data for Atal Ranking of Institutions on Innovation Achievements (ARIIA) - 2020-21

Institute Name: MATS University [ARI-U-0091]

### List all the departments / centers / units are part of innovation and startup ecosystem of the institute

Department / Center / Unit Name	Type of Department / Center / Unit	Mention the Stream / Discipline / Sector of focus	Department / Center / Unit Level	Program Type	Student / Beneficiary Strength (2019-20)	Academic Staff Strength (2019-20)	Non-academic Staff Strength (2019-20)
MATS Innovation Cell	Incubation Unit	Multidisciplinary	At all level	Both	25	4	1
BOSCH University Academia Collaboration Center	Industry Institute Interface Unit	Skill Development	UG / PG / PhD	Both	0	1	0
Wadhvani Foundation E-Cell	Pre-incubation unit	Entrepreneurship	At all level	Non-Technical	83	3	0
MSS Research Lab	Research Unit / Park	Biological Science	UG / PG / PhD	Technical	9	1	1
Computational Research Lab	Research Unit / Park	Computational Research	UG / PG / PhD	Technical	22	2	1
Central Fabrication Facility	Academic Department with lab facility	Mechanical	At all level	Technical	110	1	3
MATS IPR Cell	IPR Cell / Patent Facilitation Unit / Technology Transfer Centre	Multidisciplinary	At all level	Both	450	2	0
Computer Science and Engineering	Academic Department with lab facility	Computer Science and Engineering	UG / PG / PhD	Technical	60	9	0
Mechanical Engineering	Academic Department with lab facility	Mechanical Engineering	At all level	Technical	70	9	0
Civil Engineering	Academic Department with lab facility	Civil Engineering	At all level	Technical	130	6	0
Mining Engineering	Academic Department with lab facility	Mining Engineering	At all level	Technical	30	6	0
Aeronautical Engineering	Academic Department with lab facility	Aeronautical Engineering	UG / PG / PhD	Technical	28	6	0

### Participation of HEI in Innovation & Entrepreneurship Initiatives of Ministry of Education (Till Today)

Programs/Initiatives	Status	Registration ID
Adopted National Innovation and Start-up Policy at the HEI	Yes	Not Required
Establishment of Institution's Innovation Council (IIC) at HEI	Yes	IIC Registration ID : IC201810009
Trained Innovation Ambassadors at HEI	No	Not Required

## Participation of HEI in Innovation & Entrepreneurship Initiatives of Ministry of Education (Till Today)

Participation in Smart India Hackathon (SIH)	Yes	Not Required
Facilitated listing start-ups/ technologies in Young India combating COVID with Knowledge, Technology and Innovation (YUKTI 2.0) portal of MIC	No	Not Required
Participation in National Education Alliance of Technology (NEAT)	No	Not Required

## Details of Co-curricular events/programs related to Innovation, IPR and Entrepreneurship/Start-up Conducted by the HEI

Srno	Name of Program (Full Name)	Program Theme	Program Type	Program Category	Organizing Department / Centre / Student Body Name	Program Start Date	Program End Date	Program Duration (in Days)	Program Location	Internal Participants (Student)	Internal Participants (Faculty)	External Participants (Student)	External Participants (Faculty)	Total Number of Participants	Had institute spent expenses either from own resource/received fund to organise the program/activity/event?	Did any of the participants received any awards/recognition for startup / innovation ideas / research?
1	Industry 4.0 Future Careers	Innovation	Orientation Session	Institute Lead Activity	MATS Innovation Cell	02-03-2020 00:00:00	02-03-2020 00:00:00	1	Within Campus	50	12	0	0	62	No	No
2	Webinar on Intellectual Property Rights	IPR	Workshop	Institute Lead Activity	School of Engineering and Information Technology	28-02-2020 00:00:00	28-02-2020 00:00:00	1	Within Campus	45	14	13	0	72	No	No
3	Brainstorming session among students on various challenges in entrepreneurship	Entrepreneurship/Startup	Awareness	Institute Lead Activity	School of Engineering and Information Technology	31-12-2019 00:00:00	31-12-2019 00:00:00	1	Within Campus	24	2	0	0	26	No	No
4	How to plan for Start-up and legal & Ethical Steps	Entrepreneurship/Startup	Workshop	Institute Lead Activity	School of Engineering and Information Technology	25-01-2020 00:00:00	25-01-2020 00:00:00	1	Within Campus	23	11	0	0	34	No	No
5	Business Plan Prototype Competition to Invite Innovative Business Models from Students	Innovation	B-Plan Competitions	Institute Lead Activity	MATS Innovation Cell	16-08-2019 00:00:00	17-08-2019 00:00:00	2	Within Campus	16	2	0	0	18	No	No
6	Business opportunities for young entrepreneurs	Entrepreneurship/Startup	Seminar	Institute Lead Activity	MATS Innovation Cell	03-10-2019 00:00:00	03-10-2019 00:00:00	1	Within Campus	35	4	0	0	39	No	No

**Details of Co-curricular events/programs related to Innovation, IPR and Entrepreneurship/Start-up Conducted by the HEI**

7	IP Literacy and Awareness Program	IPR	Mentoring Session	Institute Lead Activity	MATS IPR Cell	13-07-2019 00:00:00	13-07-2019 00:00:00	1	Within Campus	10	35	0	0	45	No	No						
8	Call for paper writing and research report on Innovation	Innovation	Conference	Institute Lead Activity	MATS Innovation Cell	19-09-2019 00:00:00	19-09-2019 00:00:00	1	Within Campus	62	11	0	0	73	No	<table border="1"> <tr> <td>Award / Position / Recognition Secured</td> <td>Best Paper</td> </tr> <tr> <td>Title of Innovation / Start-up Secured the Award / Recognition</td> <td>Best Paper</td> </tr> <tr> <td>Award/Recognition/Achievement Received for</td> <td>Novel Research Paper/Work</td> </tr> </table>	Award / Position / Recognition Secured	Best Paper	Title of Innovation / Start-up Secured the Award / Recognition	Best Paper	Award/Recognition/Achievement Received for	Novel Research Paper/Work
Award / Position / Recognition Secured	Best Paper																					
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**Details of Students, Faculties/Staff Participation/Representation in Co-curricular events/programs related to Innovation, IPR and Entrepreneurship/Start-up at the State, National and (or) International Level (Organized by External Organizations) sent by the HEI**

Srno	Name of Program (Full Name)	Program Theme	Program Type	Organizing Agency / Institute Name	Organizing Agency Type	Program Start Date	Program End Date	Program Duration(in Days)	Participants (Students)	Participants (Faculty)	Total Number of Participants	Awards/Recognitions/Achievements	Award / Position / Recognition Secured	Title of Innovation / Start-up Secured the Award / Recognition	Had institute spent expenses either from own resource/ received fund towards sending delegation to participate / represent the activity / event?	Did any of the participants received any awards/recognition for startup / innovation ideas / research
1	Smart India Hackathon	Innovation	Hackathon	MHRD	Govt. Agency (Central)	01-12-2019 00:00:00	10-02-2020 00:00:00	72	6	2	8	No	---	---	No	No

**List the Academic Programs on Innovation, IPR and Entrepreneurship Development Offered During the Academic Period (2019-20)**

Srno	Title of Course/Subject Offered	Program Theme	Type of Course	Course Offering Department/Centre/Unit Name	Level of Course	Program Start Date	Program End Date	Program Duration(in Days)	Mode of Delivery	Total Numbers of Participants	Total Numbers of Contact Hours of Course ( Minimum 30 Contact hours)
1	Innovative Interpersonal Skill	Entrepreneurship/Startup	Elective/Core Credit Course	Credit Course (Elective)	School of Engineering and Information Technology	02-07-2019	30-11-2019	152	Offline	10	48
2	Intellectual Property Rights	IPR	Elective/Core Credit Course	Bachelor	School of Engineering and Information Technology	02-07-2019	30-11-2019	152	Offline	10	48
3	Entrepreneurship Development	Entrepreneurship/Startup	Elective/Core Credit Course	Bachelor	School of Engineering and Information Technology	02-01-2020	30-04-2020	120	Offline	10	48

4	Managing Innovation and Entrepreneurship	Entrepreneurship/Startup, Innovation	Elective/Core Credit Course	Bachelor	School of Engineering and Information Technology	02-07-2019	30-11-2019	152	Offline	12	48
5	Entrepreneurship	Entrepreneurship/Startup	Elective/Core Credit Course	Master	MATS School of Management Studies and Research	02-07-2019	30-11-2019	152	Offline	50	48
6	Introduction to Entrepreneurship	Entrepreneurship/Startup	Elective/Core Credit Course	Bachelor	MATS School of Management Studies and Research	02-07-2019	30-11-2019	152	Offline	150	48
7	Entrepreneurship	Entrepreneurship/Startup	Elective/Core Credit Course	Bachelor	MATS School of Business Studies	02-01-2020	30-04-2020	120	Offline	120	48

**List the Employment Generation Skill Development Programs Organized by the HEI on Innovation, IPR and Entrepreneurship Development During the Academic Period (2019-20)**

Srno	Title of the Training Program	Program Theme	Type of Course	Course Offering Department/Centre/ Unit Name	Program Start Date	Program End Date	Program Duration(in Days)	Mode of Delivery	Total Numbers of Participants	Total Numbers of Contact Hours of Course (Minimum 30 Contact hours)
1	Orientation Programme in Entrepreneurship (WFNEN100)	Entrepreneurship/Startup	EDP in I&E / IPR	Wadhvani Foundation E -Cell	01-08-2019	30-11-2019	122	Offline	32	60
2	Orientation Programme in Entrepreneurship (WFNEN100)	Entrepreneurship/Startup	EDP in I&E / IPR	Wadhvani Foundation E Cell	20-01-2020	30-04-2020	102	Offline	62	60

**List the Full Time Faculties had with a Degree (UG/PG/PhD) in Innovation/IPR/Entrepreneurship and (or) Received Specialized Training program of I&E, IPR (MDP, EDP, FDP, Short-term Certificate Course, of minimum 30 hours Duration) conducted by various State, Central Govt. agencies, and Knowledge Agencies in the Academic Period (2019-20)**

**No Data Filled!**

**List Idea/Innovation Centric Student Clubs Are Functional at the HEI with Access to Co-working Space/Work-stations for Students with Facilities & Equipment Available to promote and Support Innovation, Entrepreneurship and IPR Activities in Campus**

Srno	Name of Student Club	Type of Club	Year of Establishment	Type of Facilities Available at the Club	Student Club with Access to Other I&E Facilities at the HEI	No of Programs/Activities Organized by the Student Club During the AY 2019-20	Student Club Team Lead Name	Student Club Team Lead Email	Student Club Team Lead Phone
1	Kalpana Chawla Science Club	Innovation Club	2013	Co-working Space	Incubation Unit	4	Rahul Raj	yogeshraj444@gmail.com	7415392079

**List the Pre-Incubation Facility (Tinkering Lab/Makers' Space/Design Centre/New Gen IEDC/IEDC/EDC/Innovation Centre/Startup Cell) (>= 600 Sq. Ft. Floor Area)**

**No Data Filled!**

**List the Centre of Excellence (CoE) Facilities with Advance Tools and Equipment at the HEI (>= 1000 Sq. Ft. Floor Area)**

No Data Filled!

**List the Incubation Facilities at the HEI (>= 1500 Sq. Ft. Floor Area)**

Srno	Name of Incubation Facility	Year of Establishment	Incubation with Access to Other I&E Facilities at the HEI	Name of the Funding Schemes Available with Incubation Unit, if any (Optional)	Facility Details	Total Nos of Dedicated Executive/Management team Strength Engaged at the Facility	Had the Incubation Facility Provided any Funding Support for Idea/Prototype/Innovation Development and implementation during the Financial Year 2019-20?	Had institute Generated Income either from Services Offered by Incubation Centre/Facilities?	Had institute spent expenses either from own resource/received fund towards Establishment/Operation of Incubation Centre/Facilities?						
1	MATS Innovation Cell	2017	Student Clubs		<table border="1"> <tr> <td>Facility Incharge Name</td> <td>Dr. Brijesh Patel</td> </tr> <tr> <td>Facility Incharge Email</td> <td>brijeshp@matsoniversity.ac.in</td> </tr> <tr> <td>Facility Incharge Phone</td> <td>99261 19575</td> </tr> </table>	Facility Incharge Name	Dr. Brijesh Patel	Facility Incharge Email	brijeshp@matsoniversity.ac.in	Facility Incharge Phone	99261 19575	2	No	No	No
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**List the Innovation Park/Research Park Facilities at the HEI (>= 5000 Sq. Ft. Floor Area)**

No Data Filled!

**List the IPR Cell/Technology Transfer Centre Facilities at the HEI**

No Data Filled!

**Provide detail list of Faculties as Mentor to help Ideas/Innovations/Startups**

No Data Filled!

**Provide detail list of External Experts/Agencies engaged as Mentor to help Ideas/Innovations/Startups**

Srno	Name of the External Expert/Agency as Mentor	Mentor Expert Area	Type of Mentorship
1	Mr. Saurabh Choubey	Entrepreneurship/Startup Development	Unstructured Mentorship

**List all the Innovations Generated Developed, Completed and Implemented in Ground with Support of Pre-incubation & Incubation facilities at the HEI and Recognitions Received**

Srno	Name of the Innovation Generated with the Support of HEI	Type of Innovation	Nature of Innovation	Name of the HEI Supported Innovation Development	Innovation Developed by	Stage of Innovation /Stage of TRL it started receiving the Support during the FY 2019-20	Stage of Innovation /Stage of TRL reached as on 31st March 2020	Status Pre-Incubation/Incubation Support to Innovation as on 31st March 2020	Had the Innovation Received any Recognition at State, National, International Level Programs during the financial period 2019-20	Had the Innovation Converted into Venture/Startup/SME Unit during the financial period 2019-20	Had Centre/institute provided any Financial support (either own resource or fund received from agencies) in terms of Seed Grant/Fund Support to Idea / Prototype / Innovations Development during the financial period 2019-20	Had the Innovations raised any Seed fund/Angel Investment/VC during the period of receiving pre-incubation/incubation support at your Pre-incubation/incubation or HEI during the financial period 2019-20	Had the Pre-incubation/Incubation Centre/HEI received any income/revenue from Idea/Prototype/Innovations for the pre-incubation/incubation support and the services offered by Pre-incubation/incubation or institute during the financial period 2019																			
1	Trench Coat	Product Innovation	Non-Technological / Social / Community Innovation	MATS Innovation Cell	Faculty			Innovation Development Completed	No	No	No	No	No																			
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3	Bottle with Indicator	Product Innovation	Technological	MATS Innovation Cell	Faculty	TRL 2 : Technological formulation. Concept and application have been formulated .	TRL 2 : Technological formulation. Concept and application have been formulated .	Innovation Development Completed	No	No	No	No	No																			
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**List all the Ventures/Startups/SME Units Established with Support of Pre-incubation & Incubation facilities at the HEI**

**No Data Filled!**

**List all the Collaborations with External Agencies and Co-Creation of I&E Activities by the HEI**

Srno	Collaborated Agency Name	Collaborated Agency Type	Purpose of Collaboration	Type of Support Offered	No. of Student Projects/ Ideas / Innovation / Startups from the HEI get benefitted through this partnership	Date of MOU / Agreement Signed on
1	India Meteorological Department	Govt. Agency (Central)	Collaboration with Startups/Industry Associations/Knowledge Agencies to Promote I&E Activities and/or Internship Opportunities	Mentoring	26	06-07-2019
2	SMRC Technology and Services	Non-Govt. Agencies	Collaboration with Startups/Industry Associations/Knowledge Agencies to Promote I&E Activities and/or Internship Opportunities	Mentoring	25	06-05-2019
3	Gurukul Mahila Vidyalyay	Educational Institute	Collaboration with Startups/Industry Associations/Knowledge Agencies to Promote I&E Activities and/or Internship Opportunities	Mentoring	54	03-06-2019

**List the IPs Filed/Published/Granted (Copyright & Designs Only) by the HEI as an Applicant / Co-applicant / Co-owner**

**No Data Filled!**

**List the IP (Patents only) Filed by the HEI as Applicant / Co-applicant / Co-owner**

Srno	Title/Name of Patent	IP Registration Number	Date of Filed/Published (Year, Month)	Application Level	Copy of receipt / application screenshot [PDF or Image]
1	Bottle with Indication	316955-001	National	2019 - 04	NA
2		A DESIGN OF A SYSTEM WHICH CONSUMES BACKDRAFT FORCE TO PRODUCE RENEWABLE SOURCE OF ENERGY	201821015046	National	2019 - 10

**List the IPs hold by the Innovation teams/Startups Incubated at the Pre-incubation/incubation Unit of the HEI**

**No Data Filled!**

**List the IP Commercialized/Transferred Published & Granted to HEI as Co-applicant/Co-owner**

**No Data Filled!**

## Declaration

To,  
The ARIIA Committee  
MHRD's Innovation Cell  
New Delhi

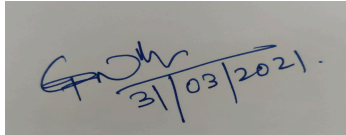
### Joint Declaration by the Head of the Institute and Nodal Officer

Dear Sir,

Herewith, myself Mr. Gokulananda Panda (Head of Institute) and Dr. Brijesh Patel (Nodal Officer) jointly declaring on behalf of our institute is that all the information submitted are true and correct to best of our knowledge.

Thank you

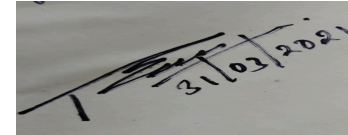
The Head of Institute



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Mr. Gokulananda Panda  
Head of the Institution,  
Raipur, Chhattisgarh

Nodal officer



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Dr. Brijesh Patel  
Nodal Officer,  
Raipur, Chhattisgarh