



ARIIA

ATL 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: THE GANDHIGRAM RURAL INSTITUTE (DEEMED TO BE UNIVERSITY) [ARI-U-0453]

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)
CENTRE FOR RURAL TECHNOLOGY	Academic Department with lab facility	ENGINEERING	UG / PG / PhD	Technical	116	8	5
DEPARTMENT OF COMPUTER SCIENCE AND APPLICATIONS	Academic Department with lab facility	SCIENCE AND TECHNOLOGY	UG / PG / PhD	Technical	219	9	2
CENTRE FOR GEOINFORMATICS	Academic Department with lab facility	GEOINFORMATICS	UG / PG / PhD	Technical	46	4	2
CENTRE FOR APPLIED GEOLOGY	Academic Department with lab facility	GEOLOGY AND GEOMATICS	UG / PG / PhD	Both	92	5	2
CENTRE FOR RURAL ENERGY	Academic Department with lab facility	ENGINEERING	UG / PG / PhD	Technical	37	1	3
DEPARTMENT OF PHYSICS	Academic Department with lab facility	SCIENCE	UG / PG / PhD	Both	240	14	8
DEPARTMENT OF CHEMISTRY	Academic Department with lab facility	SCIENCE	UG / PG / PhD	Both	271	15	7
DEPARTMENT OF MATHEMATICS	Academic Department with lab facility	SCIENCE	UG / PG / PhD	Both	327	12	4
DEPARTMENT OF BIOLOGY	Academic Department with lab facility	SCIENCE	UG / PG / PhD	Both	191	7	4
DEPARTMENT OF HOME SCIENCE	Academic Department with lab facility	SCIENCE	UG / PG / PhD	Both	287	12	6
DEPARTMENT OF RURAL INDUSTRIES AND MANAGEMENT	Academic Department with lab facility	MANAGEMENT	UG / PG / PhD	Both	205	10	7
Department of Cooperation	Academic Department with lab facility	Cooperation	UG / PG / PhD	Non-Technical	191	7	2

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	No	Not Required
Establishment of Institution's Innovation Council (IIC) at HEI	Yes	IIC Registration ID : IC201811861
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	Exposure Visit	Entrepreneurship/Startup	Exposure visit	Institute Lead Activity	Department of Cooperation	14-12-2019 00:00:00	03-03-2020 00:00:00	81	Outside Campus	54	2	0	0	56	No	No

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/Recognition/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	All India Food Science Exhibition open day 2020	Innovation	Exhibition	Indian Institute of Food Processing, Tanjore	Govt. Agency (Central)	15-09-2019 00:00:00	16-09-2019 00:00:00	2	3	1	4	Yes	Third Prize	Cardomon Harvester	No	<table border="1"> <tr> <td>Award / Position / Recognition Secured</td> <td>Third Prize</td> </tr> <tr> <td>Title of Innovation / Start-up Secured the Award / Recognition</td> <td>Cardomon Harvester</td> </tr> <tr> <td>Award/Recognition/Achievement Received for</td> <td>Idea/Innovation/Prototype</td> </tr> </table>	Award / Position / Recognition Secured	Third Prize	Title of Innovation / Start-up Secured the Award / Recognition	Cardomon Harvester	Award/Recognition/Achievement Received for	Idea/Innovation/Prototype
Award / Position / Recognition Secured	Third Prize																					
Title of Innovation / Start-up Secured the Award / Recognition	Cardomon Harvester																					
Award/Recognition/Achievement Received for	Idea/Innovation/Prototype																					

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	Remote Sensing and GPS	Entrepreneurship/Startup	Elective/Core Credit Course	Credit Course (Compulsory)	Centre for Applied Geology	11-02-2020	31-12-2020	325	Online	14	45

2	HydroGeology and Engineering Geology	Entrepreneurship/Startup	Elective/Core Credit Course	Credit Course (Compulsory)	Centre for Applied Geology	17-08-2020	12-11-2020	88	Online	13	60
3	Geophysics and Geochemistry	Entrepreneurship/Startup	Elective/Core Credit Course	Credit Course (Compulsory)	Centre for Applied Geology	17-08-2020	12-11-2020	88	Online	13	45
4	Training Programme of Insurance Advisor	Entrepreneurship/Startup	Short term Course	Short Term Certificate Course	Department of Cooperation	02-07-2019	05-07-2019	4	Offline	52	30
5	Extension-Rural Business Opportunity Profiling	Entrepreneurship/Startup	Elective/Core Credit Course	Master	Department of Cooperation	02-12-2019	20-04-2020	141	Offline	15	45
6	Summer Placement	Entrepreneurship/Startup	Elective/Core Credit Course	Master	Department of Cooperation	01-07-2019	29-11-2019	152	Offline	18	45
7	Cooperative Training	Entrepreneurship/Startup	Elective/Core Credit Course	Master	Department of Cooperation	02-12-2019	30-04-2020	151	Offline	15	45
8	Internship	Entrepreneurship/Startup	Elective/Core Credit Course	Master	Department of Cooperation	02-12-2019	30-04-2020	151	Offline	15	45
9	Extension - field visit	Entrepreneurship/Startup	Elective/Core Credit Course	Bachelor	Department of Cooperation	01-07-2019	19-11-2019	142	Offline	45	45
10	Extension - field visit	Entrepreneurship/Startup	Elective/Core Credit Course	Bachelor	Department of Cooperation	02-12-2019	30-04-2020	151	Offline	49	45
11	Cooperative Extension	Entrepreneurship/Startup	Elective/Core Credit Course	Bachelor	Department of Cooperation	02-12-2019	30-04-2020	151	Offline	49	45
12	Internship Training	Entrepreneurship/Startup	Elective/Core Credit Course	Bachelor	Department of Cooperation	01-07-2019	29-11-2019	152	Offline	49	45
13	Entrepreneurship Development	Entrepreneurship/Startup	Elective/Core Credit Course	Bachelor	Department of Cooperation	02-12-2019	30-04-2020	151	Offline	39	45
14	Project Work	Entrepreneurship/Startup	Elective/Core Credit Course	Bachelor	Department of Cooperation	02-12-2019	30-04-2020	151	Offline	39	45
15	Cooperative Training	Entrepreneurship/Startup	Elective/Core Credit Course	Bachelor	Department of Cooperation	02-12-2019	30-04-2020	151	Offline	39	45
16	Skill based elective- Bakery and Confectionery	Entrepreneurship/Startup	Elective/Core Credit Course	Bachelor	Department of Home Science	03-07-2019	30-11-2019	151	Offline	38	30
17	Skill based elective- Textile Crafts	Entrepreneurship/Startup	Elective/Core Credit Course	Bachelor	Department of Home Science	03-07-2019	30-11-2019	151	Offline	38	30
18	Skill based elective-Food Preservation	Entrepreneurship/Startup	Elective/Core Credit Course	Bachelor	Department of Home Science	03-07-2019	30-11-2019	151	Offline	38	30
19	Entrepreneurship	Entrepreneurship/Startup	Elective/Core Credit Course	Bachelor	Department of Home Science	02-12-2019	30-04-2020	151	Offline	38	45

20	Food product development and Marketing (Theory and Practical)	Innovation	Elective/Core Credit Course	Master	Department of Home Science	02-12-2019	30-04-2020	151	Offline	18	90
21	Fashion Draping	Entrepreneurship/Startup	Elective/Core Credit Course	Master	Department of Home Science	03-07-2019	30-11-2019	151	Offline	5	45
22	Boutique Planning	Entrepreneurship/Startup	Elective/Core Credit Course	Master	Department of Home Science	03-07-2019	30-11-2019	151	Offline	5	45
23	Portfolio Management	Entrepreneurship/Startup	Elective/Core Credit Course	Master	Department of Home Science	02-12-2019	30-04-2020	151	Offline	5	45
24	Sewing Techniques and Accessories	Entrepreneurship/Startup	Elective/Core Credit Course	Bachelor	Department of Home Science	03-07-2019	30-11-2019	151	Offline	29	45
25	Childrens apparel	Entrepreneurship/Startup	Elective/Core Credit Course	Bachelor	Department of Home Science	03-07-2019	30-11-2019	151	Offline	24	45
26	Surface Embellishment	Entrepreneurship/Startup	Elective/Core Credit Course	Bachelor	Department of Home Science	03-07-2019	30-11-2019	151	Offline	24	30
27	Soft toy making	Entrepreneurship/Startup	Short term Course	Bachelor	Department of Home Science	03-07-2019	30-11-2019	151	Offline	27	30
28	Textile and Fashion Merchandising	Entrepreneurship/Startup	Elective/Core Credit Course	Bachelor	Department of Home Science	03-07-2019	30-11-2019	151	Offline	27	45
29	Field Placement	Entrepreneurship/Startup	Elective/Core Credit Course	Bachelor	Department of Home Science	03-07-2019	30-11-2019	151	Offline	29	30
30	Industrial Placement	Entrepreneurship/Startup	Elective/Core Credit Course	Bachelor	Department of Home Science	03-07-2019	30-11-2019	151	Offline	27	30
31	Internship	Entrepreneurship/Startup	Elective/Core Credit Course	Bachelor	Department of Home Science	02-12-2019	30-04-2020	151	Offline	27	30
32	Fashion illustration	Entrepreneurship/Startup	Elective/Core Credit Course	Bachelor	Department of Home Science	02-12-2019	30-04-2020	151	Offline	29	45
33	Womens Apparel	Entrepreneurship/Startup	Elective/Core Credit Course	Bachelor	Department of Home Science	03-07-2019	30-11-2019	151	Offline	45	45
34	Mens Apparel	Entrepreneurship/Startup	Elective/Core Credit Course	Bachelor	Department of Home Science	02-12-2019	30-04-2020	151	Offline	45	30
35	Portfolio Presentation	Entrepreneurship/Startup	Elective/Core Credit Course	Bachelor	Department of Home Science	02-12-2019	30-04-2020	151	Offline	45	30
36	Entrepreneurship Development	Entrepreneurship/Startup	Elective/Core Credit Course	Bachelor	Department of Home Science	02-12-2019	30-04-2020	151	Offline	45	30

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	Training Programme of Insurance Advisor	Entrepreneurship/Startup	Employment Generation Training Programs	Department of Cooperation	02-07-2019	05-07-2019	4	Offline	52	30
2	Extension - Rural Business Opportunity Profiling	Entrepreneurship/Startup	Employment Generation Training Programs	Department of Cooperation	02-12-2019	30-04-2020	151	Offline	15	45
3	Summer Placement	Entrepreneurship/Startup	Employment Generation Training Programs	Department of Cooperation	01-07-2019	30-11-2019	153	Offline	18	45
4	Cooperative Training	Entrepreneurship/Startup	Employment Generation Training Programs	Department of Cooperation	02-12-2019	30-04-2020	151	Offline	15	45
5	Internship	Entrepreneurship/Startup	Employment Generation Training Programs	Department of Cooperation	02-12-2019	30-04-2020	151	Offline	15	45
6	Extension - field visit	Entrepreneurship/Startup	Employment Generation Training Programs	Department of Cooperation	01-07-2019	30-11-2019	153	Offline	45	45
7	Extension and field visit	Entrepreneurship/Startup	Employment Generation Training Programs	Department of Cooperation	02-12-2019	30-04-2020	151	Offline	49	45
8	Cooperative Extension	Entrepreneurship/Startup	Employment Generation Training Programs	Department of Cooperation	02-12-2019	30-04-2020	151	Offline	49	45
9	Internship Training	Entrepreneurship/Startup	Employment Generation Training Programs	Department of Cooperation	01-07-2019	30-11-2019	153	Offline	49	45
10	Entrepreneurship Development	Entrepreneurship/Startup	Employment Generation Training Programs	Department of Cooperation	02-12-2019	30-04-2020	151	Offline	39	45
11	Project Work	Entrepreneurship/Startup	Employment Generation Training Programs	Department of Cooperation	02-12-2019	30-04-2020	151	Offline	39	45
12	Cooperative Training	Entrepreneurship/Startup	Employment Generation Training Programs	Department of Cooperation	02-12-2019	30-04-2020	151	Offline	39	45

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

No Data Filled!

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 (\geq 1000 Sq. Ft. Floor Area)

No Data Filled!

List the Incubation Facilities at the HEI (\geq 1500 Sq. Ft. Floor Area)

No Data Filled!

List the Innovation Park/Research Park Facilities at the HEI (\geq 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

No Data Filled!

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

No Data Filled!

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

No Data Filled!

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

No Data Filled!

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

Sno	Title/Name of IP	Type of IP	IP Registration Number	Current Status of IP as on 31st March 2020	Copy of IP screenshot
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1	Seaweed Chocolate (a nutritious composition of chocolate)	PatentsHoldByInnovations	157/CHE/2012	Granted	Uploaded
	Applicant Name		Applicant Type	Start-up/Innovator Name	
	A THAHIRA BANU		Incubatee Innovator	A THAHIRA BANU	
	S. Sumaiyaa		Incubatee Innovator	S. Sumaiyaa	
S. Uma Mageshwari		Incubatee Innovator	S. Uma Mageshwari		
2	A system and method of apparel pattern making using scalable vector graphic filters	PatentsHoldByInnovations	201641022083	Published	Uploaded
	Applicant Name		Applicant Type	Start-up/Innovator Name	
	ANIL KUMAR		Incubatee Innovator	ANIL KUMAR	
R.I. Satya		Incubatee Innovator	R.I. Satya		
3	Colorimetric Detection of Endusulfan using 3-Amino 5-Mercapto 1,2,4-Triazole Capped Gold Nanoparticles	PatentsHoldByInnovations	201641022088	Published	Uploaded
	Applicant Name		Applicant Type	Start-up/Innovator Name	
Abraham John		Incubatee Innovator	Abraham John		
4	Histogram based Vibration Signature Analysis for the Detection of Ball Bearing Defects	PatentsHoldByInnovations	1533/CHE/2015	Published	Uploaded
	Applicant Name		Applicant Type	Start-up/Innovator Name	
	S. Murugan		Incubatee Innovator	S. Murugan	
	S. Mahalekshmi		Incubatee Innovator	S. Mahalekshmi	
K. Jayakumar		Incubatee Innovator	K. Jayakumar		
5	An Efficient Anode Backfill Based on Ion Conducting Paste and A Process Thereof	PatentsHoldByInnovations	285572	Granted	Uploaded
	Applicant Name		Applicant Type	Start-up/Innovator Name	
K.K. Satheesh Kumar		Incubatee Innovator	CSIR		
6	An Image Processing for Artificial Neural Network Using A Novel E-TANH Activation Function	PatentsHoldByInnovations	202141005055	Filed	NA
	Applicant Name		Applicant Type	Start-up/Innovator Name	
Kalaiselvi T		Incubatee Innovator	Kalaiselvi T		
7	Adaptive Performance Oriented Medical Imaging System	PatentsHoldByInnovations	201941027396	Published	Uploaded
	Applicant Name		Applicant Type	Start-up/Innovator Name	
Shanmugavadivu P		Incubatee Innovator	Gandhigram Rural Institut		

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 Dr. M.R. Kubendran (Head of Institute) and Dr. P. Shanmugavadivu (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

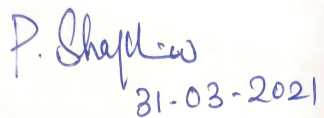
The Head of Institute



(M.R. Kubendran)

Dr. M.R. Kubendran
Head of the Institution,
GANDHIGRAM, DINDIGUL , Tamil Nadu

Nodal officer



P. Shanmugavadivu
31-03-2021

Dr. P. Shanmugavadivu
Nodal Officer,
GANDHIGRAM, DINDIGUL , Tamil Nadu