



# ARIIA

## ATAL RANKING OF INSTITUTIONS ON INNOVATION ACHIEVEMENTS



**MoE**  
Ministry of Education  
Government of India

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

Institute Name: National Institute of Technology Agartala [ARI-U-0493]

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

Srno	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)
1	Electronics and Instrumentation Engineering	Academic Department with lab facility	Electronics and Instrumentation Engineering	UG / PG / PhD	Technical	199	5	5
2	Civil Engineering	Academic Department with lab facility	Civil Engineering	UG / PG / PhD	Technical	770	32	12
3	Mathematics	Academic Department with lab facility	MSc, BSMS (Mathematics)	UG / PG / PhD	Non-Technical	99	15	1
4	Mechanical Engg Department	Academic Department with lab facility	Mechanical Engg	UG / PG / PhD	Technical	486	29	13
5	Electronics and Communication Engineering	Academic Department with lab facility	Electronics and Communication Engineering	UG / PG / PhD	Technical	425	20	11
6	Chemical Engineering	Academic Department with lab facility	Chemical Engineering	UG / PG / PhD	Technical	222	9	7
7	Electrical engineering	Academic Department with lab facility	Electrical engineering	UG / PG / PhD	Technical	424	20	14
8	Production Engineering	Academic Department with lab facility	Production Engineering	UG / PG / PhD	Technical	293	12	6
9	Computer Science and engineering	Academic Department with lab facility	Computer Science and engineering	UG / PG / PhD	Technical	504	20	11
10	Chemistry	Academic Department with lab facility	MSc, BSMS (Chemistry)	UG / PG / PhD	Non-Technical	90	12	4
11	Bio Engineering	Academic Department with lab facility	Bio Engineering	UG / PG / PhD	Technical	92	7	3
12	Management, Humanities and Social Sciences	Academic Department with lab facility	Management, Humanities and Social Sciences	UG / PG / PhD	Non-Technical	57	12	1

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

13	Physics Department	Academic Department with lab facility	MSC, BSMS, BTMT (PHYSICS)	UG / PG / PhD	Non-Technical	162	15	4
14	Center for Innovation and Design	Incubation Unit	Startup and Innovation	UG / PG / PhD	Technical	10	11	0
15	Center for Innovation and Design	Pre-incubation unit	Startup and innovation	UG / PG / PhD	Technical	10	11	0
16	Industry Institute Interface Unit	Industry Institute Interface Unit	Industry Institute Interface Unit	UG / PG / PhD	Technical	0	10	2
17	IPR Cell, NIT Agartala	IPR Cell / Patent Facilitation Unit / Technology Transfer Centre	IPR Cell	UG / PG / PhD	Technical	0	27	0
18	Central Research Facility	Centre of Excellence with Advance Tools & Equipment	Research	UG / PG / PhD	Technical	70	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	Yes	Not Required
Establishment of Institution's Innovation Council (IIC) at HEI	YES	IIC Registration ID : IC201912211
Trained Innovation Ambassadors at HEI	YES	Not Required
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	Yes	Not Required
Participation in National Education Alliance of Technology (NEAT)	No	Not Required

**Section 1 > i : 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	Robotics Workshop	Innovation	Awareness	Institute Lead Activity	Computer Sc. and Engg.	17-06-2019 00:00:00	21-06-2019 00:00:00	5	Within Campus	12	20	4	17	53	<table border="1"> <tr> <td>Total Expense Amount Incurred by Institute to Organise the Program (In Rupees)</td> <td>193600</td> </tr> </table>	Total Expense Amount Incurred by Institute to Organise the Program (In Rupees)	193600	No
Total Expense Amount Incurred by Institute to Organise the Program (In Rupees)	193600																	

**Section 1 > i : Details of Co-curricular events/programs related to Innovation, IPR and Entrepreneurship/Start-up Conducted by the HEI**

2	Landslide Hazards & Mitigation in Atharamura region of Tripura State	Innovation	Workshop	Institute Lead Activity	Civil Engineering Department	30-10-2019 00:00:00	30-10-2019 00:00:00	1	Within Campus	45	4	0	1	50	Total Expense Amount Incurred by Institute to Organise the Program (In Rupees)	37680	No
3	Advanced Seismology, Seismic Hazards & Earthquake Engineering: Theory, Simulation & Observations	Innovation	Workshop	Institute Lead Activity	Civil Engineering Department	12-12-2019 00:00:00	17-12-2019 00:00:00	6	Within Campus	79	20	11	0	110	Total Expense Amount Incurred by Institute to Organise the Program (In Rupees)	860000	No
4	Disaster management and risk reduction	Innovation	Workshop	Institute Lead Activity	Civil Engineering Department	13-05-2019 00:00:00	17-05-2019 00:00:00	5	Within Campus	67	3	0	0	70	Total Expense Amount Incurred by Institute to Organise the Program (In Rupees)	155000	No
5	Dynamik Foundation	Innovation	Workshop	Institute Lead Activity	Civil Engineering Department	03-06-2019 00:00:00	07-06-2019 00:00:00	5	Within Campus	30	1	0	0	31	Total Expense Amount Incurred by Institute to Organise the Program (In Rupees)	213302	No
6	Recent trends in water and wastewater treatment	Innovation	Workshop	Institute Lead Activity	Civil Engineering Department	12-08-2019 00:00:00	16-08-2019 00:00:00	5	Within Campus	51	6	0	0	57	Total Expense Amount Incurred by Institute to Organise the Program (In Rupees)	234765	No
7	Employability Skill Training	Entrepreneurship/Startup	Skill development	Institute Lead Activity	Employability Skill Training Committee	06-11-2019 00:00:00	09-11-2019 00:00:00	4	Within Campus	500	0	0	0	500	Total Expense Amount Incurred by Institute to Organise the Program (In Rupees)	521167	No
8	Employability Skill Training	Entrepreneurship/Startup	Skill development	Institute Lead Activity	Employability Skill Training Committee	29-01-2020 00:00:00	01-02-2020 00:00:00	4	Within Campus	500	0	0	0	500	Total Expense Amount Incurred by Institute to Organise the Program (In Rupees)	521167	No

**Section 1 > i : Details of Co-curricular events/programs related to Innovation, IPR and Entrepreneurship/Start-up Conducted by the HEI**

9	Employability Skill Training	Entrepreneurship/Start-up	Skill development	Institute Lead Activity	Employability Skill Training Committee	12-03-2020 00:00:00	16-03-2020 00:00:00	5	Within Campus	500	0	0	0	500	Total Expense Amount Incurred by Institute to Organise the Program (In Rupees)	521167	No
10	SOAR-Student Orientation on ANARC Robotic Club	Innovation	Awareness	Student Lead Activity	Dean Student Welfare	26-08-2019 00:00:00	26-08-2019 00:00:00	1	Within Campus	400	17	0	0	417	No	No	

**Section 1 > ii : 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 2020	Innovation	Hackathon	NIT SILCHAR	Govt. Agency (Central)	01-02-2020 00:00:00	02-02-2020 00:00:00	2	3	0	3	Yes	1st	Smart India Hackathon 2020	No	<table border="1"> <tr> <td>Award / Position / Recognition Secured</td> <td>1st</td> </tr> <tr> <td>Title of Innovation / Start-up Secured the Award / Recognition</td> <td>Smart India Hackathon 2020</td> </tr> <tr> <td>Award/Recognition/Achievement Received for</td> <td>Idea/Innovation/Prototype</td> </tr> </table>	Award / Position / Recognition Secured	1st	Title of Innovation / Start-up Secured the Award / Recognition	Smart India Hackathon 2020	Award/Recognition/Achievement Received for	Idea/Innovation/Prototype
Award / Position / Recognition Secured	1st																					
Title of Innovation / Start-up Secured the Award / Recognition	Smart India Hackathon 2020																					
Award/Recognition/Achievement Received for	Idea/Innovation/Prototype																					

**Section 2 > i : 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	Entrepreneurship Management in UG	Entrepreneurship/Start-up	Elective/Core Credit Course	Bachelor	Chemical Engineering	01-01-2019	31-05-2019	151	Offline	18	48
2	Entrepreneurship Management in PG	Entrepreneurship/Start-up	Elective/Core Credit Course	Master	Chemical Engineering	01-01-2019	31-05-2019	151	Offline	5	48
3	Entrepreneurship Management in PG	Entrepreneurship/Start-up	Elective/Core Credit Course	PhD	Chemical Engineering	01-02-2019	30-06-2019	150	Offline	2	48

4	Project Management and Entrepreneurship	Entrepreneurship/Startup	Elective/Core Credit Course	Credit Course (Compulsory)	Department of Management Humanities and Social Sciences	01-01-2020	30-06-2020	182	Offline	14	32
5	Entrepreneurship Development	Entrepreneurship/Startup	Elective/Core Credit Course	Bachelor	Production Engineering Department	01-01-2020	31-05-2020	152	Online	47	40

**Section 2 > ii : 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	Employability Skill Training	Entrepreneurship/Startup	Employment Generation Training Programs	Employability Skill Training Committee	06-11-2019	09-11-2019	4	Offline	500	34
2	Employability Skill Training	Entrepreneurship/Startup	Employment Generation Training Programs	Employability Skill Training Committee	29-01-2020	01-02-2020	4	Offline	500	34
3	Employability Skill Training	Entrepreneurship/Startup	Employment Generation Training Programs	Employability Skill Training Committee	12-03-2020	16-03-2020	5	Offline	500	32

**Section 2 > iii : 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)**

Srno	Faculty Name	Department/Centre/Unit Name	Designation	Do you have a degree in I&E & IPR?	Had the faculty received training on I&E & IPR during AY 2019-20
1	Dr. Amlanbrata Chakraborty	Department of Management Humanities and Social Sciences	Assistant Professor	Yes	No

**Section 3 > i : 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	Robotics	Innovation Club	2009	Co-working Space,3D Printing	Incubation Unit	2	Ayush Gupta	aayu.gupta.96@gmail.com	8299731752
2	ANIMA - The Aero Club	Innovation Club	2018	Co-working Space,Work Stations	Incubation Unit,Centre of Excellence with Advance Tools	3	Aryan Awasthi	aryanaw0035@gmail.com	7456830168
3	ANARC (Asimov NIT Agartala Robotics Club)	Innovation Club	2019	Co-working Space,3D Printing	Incubation Unit	3	Rishab Navaneet	navaneetbhsir@gmail.com	9077700363

**Section 3 > ii > a : 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)**

Srno	Name of Pre-	Type of	Year of	Type of	Pre-Incubation	Name of the	Facility Details	Total Nos of Dedicated	Had the Pre-Incubation	Had institute	Had institute spent expenses either
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**Section 3 > ii > a : 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)**

	Incubation Centre	Facility	Establishment	Facilities Available at the Centre	with Access to Other I&E Facilities at the HEI	Funding Schemes Available with Pre-Incubation Unit, if any (Optional)		Executive/Management team Strength Engaged at the Facility	Unit Provided any Funding Support for Idea/Prototype/Innovation Development and implementation during the Financial Year 2019-20	Generated Income either from Services Offered by Pre-Incubation Centre/Facilities?	from own resource/received fund towards Establishment/Operation of Pre-Incubation Centre/Facilities?						
1	Innovation centre	Innovation Centre	2016	Co-working Space	Incubation Unit, Innovation Labs, Student Clubs	Incubation Unit, Innovation Labs, Student Clubs	<table border="1"> <tr> <td>Facility Incharge Name</td> <td>Dr. Partha Pratim Sarkar</td> </tr> <tr> <td>Facility Incharge Email</td> <td>ps_partha@yafoo.com</td> </tr> <tr> <td>Facility Incharge Phone</td> <td>7005673476</td> </tr> </table>	Facility Incharge Name	Dr. Partha Pratim Sarkar	Facility Incharge Email	ps_partha@yafoo.com	Facility Incharge Phone	7005673476	5	No	No	No
Facility Incharge Name	Dr. Partha Pratim Sarkar																
Facility Incharge Email	ps_partha@yafoo.com																
Facility Incharge Phone	7005673476																
2	Human Computer Interaction Lab	Tinkering Lab	2015	3D Printing & Prototype Equipment	Incubation Unit, Innovation Labs, Student Clubs	Incubation Unit, Innovation Labs, Student Clubs	<table border="1"> <tr> <td>Facility Incharge Name</td> <td>Dr. Suman Deb</td> </tr> <tr> <td>Facility Incharge Email</td> <td>sumandeb.cs@nita.ac.in</td> </tr> <tr> <td>Facility Incharge Phone</td> <td>9436459622</td> </tr> </table>	Facility Incharge Name	Dr. Suman Deb	Facility Incharge Email	sumandeb.cs@nita.ac.in	Facility Incharge Phone	9436459622	2	No	No	No
Facility Incharge Name	Dr. Suman Deb																
Facility Incharge Email	sumandeb.cs@nita.ac.in																
Facility Incharge Phone	9436459622																

**Section 3 > ii > b : List the Centre of Excellence (CoE) Facilities with Advance Tools and Equipment at the HEI (>= 1000 Sq. Ft. Floor Area)**

Srno	Name of CoE Facility	Year of Establishment	CoE with Access to Other I&E Facilities at the HEI	Name of the Funding Schemes Available with CoE, if any (Optional)	Facility Details	Total Nos of Dedicated Executive/Management team Strength Engaged at the Facility	Had the CoE 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 CoE Centre/Facilities?	Had institute spent expenses either from own resource/received fund towards Establishment/Operation of CoE Centre/Facilities?						
1	High Performance Computing Center	2016	Pre-Incubation, Innovation Labs		<table border="1"> <tr> <td>Facility Incharge Name</td> <td>Dr Nirmalya Kar</td> </tr> <tr> <td>Facility Incharge Email</td> <td>nirmalya@nita.ac.in</td> </tr> <tr> <td>Facility Incharge Phone</td> <td>9436767179</td> </tr> </table>	Facility Incharge Name	Dr Nirmalya Kar	Facility Incharge Email	nirmalya@nita.ac.in	Facility Incharge Phone	9436767179	2	No	No	No
Facility Incharge Name	Dr Nirmalya Kar														
Facility Incharge Email	nirmalya@nita.ac.in														
Facility Incharge Phone	9436767179														

**Section 3 > ii > b : List the Centre of Excellence (CoE) Facilities with Advance Tools and Equipment at the HEI (>= 1000 Sq. Ft. Floor Area)**

2	Central Research Facility	2015	Pre-Incubation, Incubation Unit, Innovation Labs		<table border="1"> <tr> <td>Facility Incharge Name</td> <td>Dr. Tarun Kumar Misra</td> </tr> <tr> <td>Facility Incharge Email</td> <td>tkmisra.chem@nita.ac.in</td> </tr> <tr> <td>Facility Incharge Phone</td> <td>89747 27776</td> </tr> </table>	Facility Incharge Name	Dr. Tarun Kumar Misra	Facility Incharge Email	tkmisra.chem@nita.ac.in	Facility Incharge Phone	89747 27776	8	No	No	No
Facility Incharge Name	Dr. Tarun Kumar Misra														
Facility Incharge Email	tkmisra.chem@nita.ac.in														
Facility Incharge Phone	89747 27776														

**Section 3 > ii > c : 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	Centre For Innovation and Design	2016	Pre-Incubation, Innovation Labs, Student Clubs		<table border="1"> <tr> <td>Facility Incharge Name</td> <td>Dr. Partha Pratim Sarkar</td> </tr> <tr> <td>Facility Incharge Email</td> <td>ps_partha@yahoo.com</td> </tr> <tr> <td>Facility Incharge Phone</td> <td>70056 73476</td> </tr> </table>	Facility Incharge Name	Dr. Partha Pratim Sarkar	Facility Incharge Email	ps_partha@yahoo.com	Facility Incharge Phone	70056 73476	5	No	No	No
Facility Incharge Name	Dr. Partha Pratim Sarkar														
Facility Incharge Email	ps_partha@yahoo.com														
Facility Incharge Phone	70056 73476														

**Section 3 > ii > d : List the Innovation Park/Research Park Facilities at the HEI (>= 5000 Sq. Ft. Floor Area)**

Srno	Name of Innovation Park/Research Park Facility	Year of Establishment	Innovation Park / Research Park with Access to Other I & E Facilities at the HEI	Name of the Funding Schemes Available with Research/Innovation Park, if any (Optional)	Facility Details	Total Nos of Dedicated Executive/Management team Strength Engaged at the Facility	Had the Research Park/Innovation Park 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 Research Park/Innovation Park?	Had the Research Park/Innovation Park Provided any Funding Support for Idea/Prototype/Innovation/Start up/Venture Development and implementation during the Financial Year 2019-20?						
1	Center of Innovation and Design	2015	Pre-Incubation, Incubation Unit, Innovation Labs		<table border="1"> <tr> <td>Facility Incharge Name</td> <td>Dr Partha Pratim Sarkar</td> </tr> <tr> <td>Facility Incharge Email</td> <td>ps_partha@yahoo.com</td> </tr> <tr> <td>Facility Incharge Phone</td> <td>97740 51947</td> </tr> </table>	Facility Incharge Name	Dr Partha Pratim Sarkar	Facility Incharge Email	ps_partha@yahoo.com	Facility Incharge Phone	97740 51947	5	No	No	No
Facility Incharge Name	Dr Partha Pratim Sarkar														
Facility Incharge Email	ps_partha@yahoo.com														
Facility Incharge Phone	97740 51947														

**Section 3 > ii > e : List the IPR Cell/Technology Transfer Centre Facilities at the HEI****No Data Filled!****Section 3 > iii > a : Provide detail list of Faculties as Mentor to help Ideas/Innovations/Startups****No Data Filled!****Section 3 > iii > b : 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	iBuild innovations India Pvt. Ltd.	IPR Protection & Commercialization	Unstructured Mentorship

**Section 4 : 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!****Section 5 : List all the Ventures/Startups/SME Units Established with Support of Pre-incubation & Incubation facilities at the HEI****No Data Filled!****Section 7 > i : List all the Collaborations with External Agencies and Co-Creation of I&E Activities by the HEI****No Data Filled!****Section 8 > ii : List the IPs Filed/Published/Granted (Copyright & Designs Only) by the HEI as an Applicant / Co-applicant / Co-owner****No Data Filled!****Section 8 > iii : 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	STABILIZED LIGNOCELLULOSIC WOODY MATERIALS RESISTANT TO BIO-DEGRADATION AND PROCESS THEREOF	201931026044	National	2019 - 06	Uploaded
2	AN ELECTRONICS SYSTEM FOR WRITING USING CONVENTIONAL ACCESSORIES	202031000360	National	2019 - 12	Uploaded
3	FOOD SPOULAGE DEVICE	201931 049330	National	2019 - 11	Uploaded
4	THE SIX SENSE DEVICE	201931 048224	National	2019 - 11	Uploaded
5	A DEVICE FOR REMOVING LACUNAS OF EXISTING IMAGE USING INPAINTING TECHNIQUES	201931 051249	National	2019 - 11	Uploaded
6	INTELLIGENT ELECTRICITY SAVING DEVICE	201931 048105	National	2019 - 11	Uploaded
7	WASTE MONITORING SYSTEM	201931 040157	National	2019 - 10	Uploaded



8	SYSTEM FOR AGRONOMY MONITORING AND ENHANCING AN IRRIGATION EFFICIENCY	201931 029993	National	2019 - 07	Uploaded
9	NOVEL POLYMERIC BLEND FOR MAKING BIOLOGICAL JOINT PROSTHESIS AND METHOD OF MAKING THE SAME	201931042737	National	2019 - 10	Uploaded
10	Microcontroller based automatic multi-frequency ultrasonic sound generated Mosquito repellent	202031003455	National	2020 - 01	Uploaded