



ARIIA

ATL 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: VISVESVARAYA NATIONAL INSTITUTE OF TECHNOLOGY NAGPUR [ARI-U-0334]

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	Mechanical Engineering	Academic Department with lab facility	Mechanical Engineering	UG / PG / PhD	Technical	616	30	15
2	Computer Science and engineering	Academic Department with lab facility	Computer Science and Engineering	UG / PG / PhD	Technical	532	14	9
3	Electronics Communication Engineering	Academic Department with lab facility	Electronics Communication Engineering	UG / PG / PhD	Technical	526	14	6
4	Electronics and Electrical Engineering	Academic Department with lab facility	Electronics and Electrical Engineering	UG / PG / PhD	Technical	599	22	9
5	Architecture and Planning	Academic Department with lab facility	Architecture and Planning	UG / PG / PhD	Technical	353	16	5
6	Applied Mechanics	Academic Department with lab facility	Applied Mechanics	UG / PG / PhD	Technical	97	13	7
7	Civil Engineering	Academic Department with lab facility	Civil Engineering	UG / PG / PhD	Technical	577	24	7
8	Chemical Engineering	Academic Department with lab facility	Chemical Engineering	UG / PG / PhD	Technical	418	19	3
9	Mining Engineering	Academic Department with lab facility	Mining Engineering	UG / PG / PhD	Technical	169	8	6
10	Materials and Metallurgical Engineering	Academic Department with lab facility	Materials and Metallurgical Engineering	UG / PG / PhD	Technical	568	14	9
11	Chemistry	Academic Department with lab facility	Chemistry	UG / PG / PhD	Technical	86	13	6
12	HUMANITIES AND SOCIAL SCIENCE	Academic Department with lab facility	HUMANITIES AND SOCIAL SCIENCE	UG / PG / PhD	Non-Technical	13	6	1

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

13	MATHEMATICS	Academic Department with lab facility	MATHEMATICS	UG / PG / PhD	Technical	80	12	2
14	Physics	Academic Department with lab facility	Physics	UG / PG / PhD	Technical	77	12	7
15	CENTRE FOR VLSI AND NANOTECHNOLOGY	Academic Department with lab facility	VLSI AND NANOTECHNOLOGY	UG / PG / PhD	Technical	56	6	1

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 : IC201811511
Trained Innovation Ambassadors at HEI	NO	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)	Yes	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	Flagship	Entrepreneurship/Startup	Seminar	Student Lead Activity	E-Cell	02-08-2019 00:00:00	02-08-2019 00:00:00	1	Within Campus	700	12	600	10	1322	No	No
2	Jugaad	Entrepreneurship/Startup	Workshop	Student Lead Activity	Ecell	21-09-2019 00:00:00	21-09-2019 00:00:00	1	Within Campus	100	2	140	2	244	No	No
3	Ideation Acceleration Series	Entrepreneurship/Startup	Seminar	Student Lead Activity	Ecell	14-09-2019 00:00:00	14-09-2019 00:00:00	1	Within Campus	50	2	0	0	52	No	No
4	AI ML Workshop	Entrepreneurship/Startup	Workshop	Student Lead Activity	Ecell	25-01-2020 00:00:00	25-01-2020 00:00:00	1	Within Campus	150	2	0	0	152	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	Program	Program	Organizing Department / Centre / Student Body Name	Organizing Department / Centre / Student Body Name	Program Start Date	Program End Date	Program Duration(in Days)	Program Location	Participating Students	Participating Faculty	Total	Awards/R	Award /	Title of	Had institute spent expenses	Did any of the participants
------	-----------------	---------	---------	--	--	--------------------	------------------	---------------------------	------------------	------------------------	-----------------------	-------	----------	---------	----------	------------------------------	-----------------------------

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

Sl. No.	Program (Full Name)	Theme	Type	Org Agency / Institute Name	Org Agency Type	Start Date	End Date	Duration(in Days)	Students (Students)	Faculty (Faculty)	Number of Participants	Recognitions/Achievements	Position / Recognition Secured	Innovation / Start-up Secured the Award / Recognition	Funding: either from own resource/ received fund towards sending delegation to participate / represent the activity /event?	Awards/Recognition	
																received any awards/recognition for startup / innovation ideas / research	
1	Smart India Hackathon 2020	Innovation	Hackathon	AICTE India	Govt. Agency (Central)	01-12-2019 00:00:00	10-02-2020 00:00:00	72	3	1	4	Yes	received first prize of 1 lakh rupees	Attention Span Detection in online instructor led session	No	Award / Position / Recognition Secured	received first prize of 1 lakh rupees
																Title of Innovation / Start-up Secured the Award / Recognition	Attention Span Detection in online instructor led session
																Award/Recognition/Achievement Received for	Idea/Innovation/Prototype
2	Smart India Hackathon 2020	Innovation	Hackathon	AICTE India	Govt. Agency (Central)	01-12-2019 00:00:00	10-02-2020 00:00:00	72	3	1	4	Yes	first position with one lakh award	Creating an affordable solution through camera feed for number plates of vehicles for the detection, identification, and monitoring of vehicles in different scenarios	No	Award / Position / Recognition Secured	first position with one lakh award
																Title of Innovation / Start-up Secured the Award / Recognition	Creating an affordable solution through camera feed for number plates of vehicles for the detection, identification, and monitoring of vehicles in different scenarios
																Award/Recognition/Achievement Received for	Idea/Innovation/Prototype

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

3	HackHarvard Global Hackathon 2019	Innovation	Hackathon	Harvard University in Boston	International Agencies	01-04-2019 00:00:00	20-10-2019 00:00:00	20	3	1	4	Yes	3rd position	a model to cut food wastage	No	<table border="1"> <tr> <td>Award / Position / Recognition Secured</td> <td>3rd position</td> </tr> <tr> <td>Title of Innovation / Start-up Secured the Award / Recognition</td> <td>a model to cut food wastage</td> </tr> <tr> <td>Award/Recognition/Achievement Received for</td> <td>Idea/Innovation/Prototype</td> </tr> </table>	Award / Position / Recognition Secured	3rd position	Title of Innovation / Start-up Secured the Award / Recognition	a model to cut food wastage	Award/Recognition/Achievement Received for	Idea/Innovation/Prototype
Award / Position / Recognition Secured	3rd position																					
Title of Innovation / Start-up Secured the Award / Recognition	a model to cut food wastage																					
Award/Recognition/Achievement Received for	Idea/Innovation/Prototype																					
4	SBI Yono Quiz	Innovation	Innovation Contest	SBI	Govt. Agency (Central)	05-03-2020 00:00:00	05-03-2020 00:00:00	1	3	1	4	Yes	1st Position	management Quiz	No	<table border="1"> <tr> <td>Award / Position / Recognition Secured</td> <td>1st Position</td> </tr> <tr> <td>Title of Innovation / Start-up Secured the Award / Recognition</td> <td>management Quiz</td> </tr> <tr> <td>Award/Recognition/Achievement Received for</td> <td>Business Model/Start up</td> </tr> </table>	Award / Position / Recognition Secured	1st Position	Title of Innovation / Start-up Secured the Award / Recognition	management Quiz	Award/Recognition/Achievement Received for	Business Model/Start up
Award / Position / Recognition Secured	1st Position																					
Title of Innovation / Start-up Secured the Award / Recognition	management Quiz																					
Award/Recognition/Achievement Received for	Business Model/Start up																					
5	Tata Crucible Campus Quiz	Innovation	Innovation Contest	Tata Crucible	Corporate / Industry Association	26-04-2019 00:00:00	26-04-2019 00:00:00	1	3	1	4	Yes	Received cash prize of 75000	Management Quiz	No	<table border="1"> <tr> <td>Award / Position / Recognition Secured</td> <td>Received cash prize of 75000</td> </tr> <tr> <td>Title of Innovation / Start-up Secured the Award / Recognition</td> <td>Management Quiz</td> </tr> <tr> <td>Award/Recognition/Achievement Received for</td> <td>Business Model/Start up</td> </tr> </table>	Award / Position / Recognition Secured	Received cash prize of 75000	Title of Innovation / Start-up Secured the Award / Recognition	Management Quiz	Award/Recognition/Achievement Received for	Business Model/Start up
Award / Position / Recognition Secured	Received cash prize of 75000																					
Title of Innovation / Start-up Secured the Award / Recognition	Management Quiz																					
Award/Recognition/Achievement Received for	Business Model/Start up																					

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

6	NDRF Design	Innovation	Innovation Contest	National Design and Research forum along with the institute of Engineers jaipur	Govt. Agency (Central)	12-11-2019 00:00:00	14-11-2019 00:00:00	3	1	1	2	Yes	Gold Medal	NDRF Design	No	Award / Position / Recognition Secured	Gold Medal	Title of Innovation / Start-up Secured the Award / Recognition	NDRF Design	Award/Recognition/Achievement Received for	Idea/Innovation/Prototype
7	HOSMAC Global Architectural Student competition for hospital design	Innovation	Innovation Contest	HOSMAC India Pvt Ltd	Non-Govt. Agencies	27-11-2019 00:00:00	29-11-2019 00:00:00	3	4	1	5	Yes	2nd Prize	HOSMAC	No	Award / Position / Recognition Secured	2nd Prize	Title of Innovation / Start-up Secured the Award / Recognition	HOSMAC	Award/Recognition/Achievement Received for	Idea/Innovation/Prototype
8	Earthquake resistant design competition	Entrepreneurship/Startup	Innovation Contest	IIT Kanpur	Govt. Agency (Central)	27-12-2019 00:00:00	29-12-2019 00:00:00	3	4	1	5	Yes	2nd Prize	Earthquake resistant design	No	Award / Position / Recognition Secured	2nd Prize	Title of Innovation / Start-up Secured the Award / Recognition	Earthquake resistant design	Award/Recognition/Achievement Received for	Idea/Innovation/Prototype

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

9	Think Green Quiz Competition	Innovation	Innovation Contest	IGBC Vidharbha Students	Govt. Agency (Central)	15-02-2020 00:00:00	15-02-2020 00:00:00	1	2	1	3	Yes	IGBC Green Quiz Award	Quiz	No	Award / Position / Recognition Secured	IGBC Green Quiz Award
																Title of Innovation / Start-up Secured the Award / Recognition	Quiz
																Award/Recognition/Achievement Received for	Idea/Innovation/Prototype
10	1st National Agrochemicals Congress Country's Status on Various Fronts of Agrochemicals	Innovation	Conference	Indian Agriculture Research institute (IARI)	Govt. Agency (Central)	13-11-2019 00:00:00	16-11-2019 00:00:00	4	1	1	2	Yes	first prize in the Poster presentation	Selective Separation of Bioactive Compound from Food Processing Industrial Waste A Bio-refinery Approach	No	Award / Position / Recognition Secured	first prize in the Poster presentation
																Title of Innovation / Start-up Secured the Award / Recognition	Selective Separation of Bioactive Compound from Food Processing Industrial Waste A Bio-refinery Approach
																Award/Recognition/Achievement Received for	Novel Research Paper/Work
11	11th national Conference solid state Chemistry and Allied areas	Innovation	Conference	Indian Association of Solid State Chemist and SKP College of Arts Science and Commerce	Govt. Agency (State)	20-12-2019 00:00:00	21-12-2019 00:00:00	2	2	2	4	Yes	2nd prize	Synthesis of Core shell copper cenosphere composite in fluidized bed reactor	No	Award / Position / Recognition Secured	2nd prize
																Title of Innovation / Start-up Secured the Award / Recognition	Synthesis of Core shell copper cenosphere composite in fluidized bed reactor
																Award/Recognition/Achievement Received for	Novel Research Paper/Work

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

12	11th national Conference solid state Chemistry and Allied areas	Innovation	Conference	Indian Association of Solid State Chemist and SKP College of Arts Science and Commerce	Govt. Agency (State)	20-12-2019 00:00:00	21-12-2019 00:00:00	2	3	1	4	Yes	2nd Prize	Antibacterial Dental Composite Resin	No	Award / Position / Recognition Secured	2nd Prize
																Title of Innovation / Start-up Secured the Award / Recognition	Antibacterial Dental Composite Resin
																Award/Recognition/Achievement Received for	Novel Research Paper/Work

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	Quest for Best- Enhancing Design Thinking	Innovation	Short term Course	Short Term Certificate Course	Architecture and Planning	17-07-2019	21-07-2019	5	Offline	30	30
2	Shifting Teaching Learning Paradigms through Innovative Pedagogy	Innovation	Short term Course	Short Term Certificate Course	Electrical and Electronics Engineering	12-02-2020	16-02-2020	5	Offline	30	30
3	Interdisciplinary Research Methodology Application of ICT and Innovations	Innovation	Short term Course	Short Term Certificate Course	HUMANITIES AND SOCIAL SCIENCES	20-05-2019	27-05-2019	8	Offline	30	30
4	Innovative Design	Innovation	Elective/Core Credit Course	Bachelor	Chemical	01-01-2019	31-05-2019	151	Offline	60	40
5	Cost Accounting	Entrepreneurship/Startup	Elective/Core Credit Course	Bachelor	Mechanical Engineering	23-07-2019	05-12-2019	136	Offline	15	40
6	Product Design	Innovation	Elective/Core Credit Course	Bachelor	Mechanical Engineering	23-07-2019	05-12-2019	136	Offline	15	40
7	Introduction to Entrepreneurship	IPR, Entrepreneurship/Startup, Innovation	Elective/Core Credit Course	Bachelor	CIVN VNIT	23-07-2019	05-12-2019	136	Offline	120	40
8	Principles of Economics	Entrepreneurship/Startup	Elective/Core Credit Course	Bachelor	Humanities	23-07-2019	05-12-2019	136	Offline	120	40
9	Money and Financial Market	Entrepreneurship/Startup	Elective/Core Credit Course	Bachelor	Humanities	23-07-2019	05-12-2019	136	Offline	120	40
10	Rural Technology	Entrepreneurship/Startup, Innovation	Elective/Core Credit Course	Bachelor	Metallurgical And Material Science	23-07-2019	05-12-2019	136	Offline	120	40
11	Financial Mathematics	Entrepreneurship/Startup, Innovation	Elective/Core Credit Course	Bachelor	Mathematics	23-07-2019	05-12-2019	136	Offline	120	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	Extreme Events Disaster Risk Reduction and Management	Innovation	FDP in I&E / IPR	APPLIED MECHANICS	21-11-2019	24-11-2019	4	Offline	30	30
2	Blast Resistant and Anti-Terrorism Design of Structures using Advanced Materials	Innovation	FDP in I&E / IPR	APPLIED MECHANICS	26-08-2019	30-08-2019	5	Offline	40	40
3	Limit State Design of Steel Structures	Innovation	FDP in I&E / IPR	Applied Mechanics	29-07-2019	02-08-2019	5	Offline	40	40
4	Introduction to Random Vibrations	Innovation	FDP in I&E / IPR	Applied Mecahnics	16-07-2019	20-07-2019	5	Offline	40	40
5	Best Practices in Brick Masonry and Timber Joinery	Entrepreneurship/Startup, Innovation	FDP in I&E / IPR	ARCHITECTURE AND PLANNING	03-04-2019	07-04-2019	5	Offline	40	40
6	Building Urban Rural Partnership for Resilient Future Nagpur City and Metropolitan Region	Entrepreneurship/Startup, Innovation	FDP in I&E / IPR	Architecture and Planning	03-04-2019	07-04-2019	5	Offline	45	40
7	Spatial and Statistical Data Analysis	Entrepreneurship/Startup, Innovation	FDP in I&E / IPR	Architecture and Planning	07-08-2019	11-08-2019	5	Offline	45	40
8	Sustainable Habitat	Innovation	FDP in I&E / IPR	Architecture and Planning	24-09-2019	28-09-2019	5	Offline	45	40
9	Extreme Events Disaster Risk Reduction and Management	Innovation	FDP in I&E / IPR	Architecture and Planning	21-11-2019	24-11-2019	4	Offline	45	40
10	Summer School on Research Conception Technique and Publication	Entrepreneurship/Startup, Innovation	FDP in I&E / IPR	CHEMICAL ENGINEERING	15-05-2019	01-07-2019	48	Offline	60	540
11	GIAN Course- Global Perspective to Achieve Low Carbon Built Environment	Innovation	FDP in I&E / IPR	Civil Engineering	06-05-2019	11-05-2019	6	Offline	60	42
12	Laboratory Methods for Water and Wastewater Analysis and Air Quality Monitoring	IPR, Entrepreneurship/Startup, Innovation	FDP in I&E / IPR	Civil Engineering	20-05-2019	24-05-2019	5	Offline	30	40
13	Modelling Issues of Soil-Structure Interaction Problem	Innovation	FDP in I&E / IPR	Civil Engineering	08-07-2019	12-07-2019	5	Offline	45	40
14	Workshop on Information Retrieval (IR) and Machine Learning for IR	Innovation	FDP in I&E / IPR	COMPUTER SCIENCE AND ENGINEERING	17-06-2019	21-06-2019	5	Offline	40	40
15	Workshop on Information Security and Cryptography	Innovation	FDP in I&E / IPR	COMPUTER SCIENCE AND ENGINEERING	09-12-2019	13-12-2019	5	Offline	40	40
16	Digital Control of Power Electronic Converter for Drives and Energy System	Innovation	FDP in I&E / IPR	ELECTRICAL AND ELECTRONICS ENGINEERING	15-07-2019	19-07-2019	5	Offline	70	40
17	Hands on Training on STM 32 bit microcontroller for Power Electronic system	Innovation	FDP in I&E / IPR	ELECTRICAL AND ELECTRONICS ENGINEERING	10-06-2019	14-06-2019	5	Offline	45	40

18	Smart Energy Systems for Rural and Urban Development	Entrepreneurship/Startup, Innovation	FDP in I&E / IPR	ELECTRICAL AND ELECTRONICS ENGINEERING	02-12-2019	05-12-2019	4	Offline	50	40
19	Power Systems and Control A Modern Perspective	Innovation	FDP in I&E / IPR	ELECTRICAL AND ELECTRONICS ENGINEERING	01-07-2019	06-07-2019	6	Offline	40	40
20	Antenna design Simulation Fabrication and Testing	Entrepreneurship/Startup, Innovation	FDP in I&E / IPR	ELECTRONICS AND COMMUNICATION ENGINEERING	04-11-2019	11-11-2019	8	Offline	40	40
21	National Workshop on Bhartiya Ganitam	Innovation	FDP in I&E / IPR	MATHEMATICS	09-09-2019	12-09-2019	4	Offline	45	40
22	mini-MTTS Programme	Innovation	FDP in I&E / IPR	MATHEMATICS	27-01-2020	01-02-2020	6	Offline	50	40
23	VLSI Tech workshop by test and technology council of India	Entrepreneurship/Startup, Innovation	FDP in I&E / IPR	Center for VLSI and Nano Technology	02-12-2019	08-12-2019	7	Offline	50	40

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	Makarand Lokhande	ELECTRICAL AND ELECTRONICS ENGINEERING	Assistant Professor	No	Yes				
	Training Name	Training Theme	Type of Course	Training Agency Name	Training Agency Type	Training Start Date	Training End Date	Training Duration (in Days)	Mode of Delivery
	ELECTRICAL AND ELECTRONICS ENGINEERING	Innovation	Short term Certificate	IIT Bombay	Govt. Agency (Central)	01-05-2019 00:00:00	31-12-2019 00:00:00	245	Online
2	Prasad Kane	Mechanical Engineering	Assistant Professor	No	Yes				
	Training Name	Training Theme	Type of Course	Training Agency Name	Training Agency Type	Training Start Date	Training End Date	Training Duration (in Days)	Mode of Delivery
	Professional Development Training	Entrepreneurship/Startup, Innovation	Short term Certificate	IIM Indore	Govt. Agency (Central)	17-06-2019 00:00:00	21-06-2019 00:00:00	5	Offline

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	V-ACM	Innovation Club	2013	Co-working Space, Work Stations	Innovation Labs, Centre of Excellence with Advance Tools	6	Warun Panpaliya	proclubvnit@gmail.com	8830036413
2	SAE and TESLA	Innovation Club	2016	Co-working Space	Innovation Labs, Centre of Excellence with Advance Tools	1	Niranjan Mankar	teslavnit@gmail.com	7249634650

3	Design Innovation	Innovation Club	2018	None	Innovation Labs, Centre of Excellence with Advance Tools	3	S M	Smandavgane@gmail.com	9822226555
4	I V Lab	Innovation Club	2014	Co-working Space, 3D Printing	Pre-Incubation Unit, Innovation Labs, Centre of Excellence with Advance Tools	3	Aniket Gujarathi	ivlabsvnit@gmail.com	9819749241
5	Team V Vlocity	Idea Club	2017	Co-working Space	Innovation Labs, Centre of Excellence with Advance Tools	3	Tanmay Kansal	vnitracing@gmail.com	7347356387
6	E-cell	Idea Club	2004	Co-working Space	Pre-Incubation Unit, Incubation Unit, IPR Cell/Technology Transfer Centre	30	Lakshya Shukla	contact@ecellvnit.org	7738446931
7	IICHe	Innovation Club	2009	Co-working Space	Innovation Labs	4	K. Raghavendra	iichevnit2018@gmail.com	9561053030
8	SHELL	Idea Club	2014	Co-working Space, Work Stations	Innovation Labs	4	Vyankatesh Muley	shellpwn@gmail.com	9960586984

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-Incubation Centre	Type of Facility	Year of Establishment	Type of Facilities Available at the Centre	Pre-Incubation with Access to Other I&E Facilities at the HEI	Name of the Funding Schemes Available with Pre-Incubation Unit, if any (Optional)	Facility Details	Total Nos of Dedicated Executive/Management team Strength Engaged at the Facility	Had the Pre-Incubation Unit 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 Pre-Incubation Centre/Facilities?	Had institute spent expenses either from own resource/received fund towards Establishment/Operation of Pre-Incubation Centre/Facilities?						
1	Centre for Innovation at VNIT, Nagpur	Innovation Centre	2018	Co-working Space	Innovation Labs	Innovation Labs	<table border="1"> <tr> <td>Facility Incharge Name</td> <td>Dr. Rajendra Patrikar</td> </tr> <tr> <td>Facility Incharge Email</td> <td>rmpatrikar@cvn.vnit.ac.in</td> </tr> <tr> <td>Facility Incharge Phone</td> <td>9890124732</td> </tr> </table>	Facility Incharge Name	Dr. Rajendra Patrikar	Facility Incharge Email	rmpatrikar@cvn.vnit.ac.in	Facility Incharge Phone	9890124732	4	Yes	No	No
Facility Incharge Name	Dr. Rajendra Patrikar																
Facility Incharge Email	rmpatrikar@cvn.vnit.ac.in																
Facility Incharge Phone	9890124732																
2	Centre for Innovation at VNIT, Nagpur	Innovation Centre	2018	Co-working Space	Innovation Labs, Centre of Excellence with Advance Tools, IPR Cell/Technology Transfer Centre, Student Clubs	Innovation Labs, Centre of Excellence with Advance Tools, IPR Cell/Technology Transfer Centre, Student Clubs	<table border="1"> <tr> <td>Facility Incharge Name</td> <td>Dr. Rajendra Patrikar</td> </tr> <tr> <td>Facility Incharge Email</td> <td>rmpatrikar@cvn.vnit.ac.in</td> </tr> <tr> <td>Facility Incharge Phone</td> <td>9890124732</td> </tr> </table>	Facility Incharge Name	Dr. Rajendra Patrikar	Facility Incharge Email	rmpatrikar@cvn.vnit.ac.in	Facility Incharge Phone	9890124732	4	No	No	Yes
Facility Incharge Name	Dr. Rajendra Patrikar																
Facility Incharge Email	rmpatrikar@cvn.vnit.ac.in																
Facility Incharge Phone	9890124732																

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)

Source of Grant / Fund	Agency Name	Agency Type	Total Grants / Funds Received by Pre-Incubation & Incubation Centre / Facilities exists in Campus (In Rupees)
Institute's Own Fund / Resource	TEQIP	Govt. Agency (Central)	1900000
Institute's Own Fund / Resource	VNIT	Govt. Agency (Central)	1735000

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 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?
					Facility Incharge Name	Facility Incharge Email			Facility Incharge Phone	Yes	
1	Siemens Center of Excellence in Industry 4 and Digitalization	2019	Pre-Incubation, Innovation Labs, Student Clubs	NA	Facility Incharge Name	Shital Chiddarwar	27	Yes	No	Yes	
					Facility Incharge Email	shitalc@me.c.vnit.ac.in					
					Facility Incharge Phone	9561050130					
Source of Grant / Fund			Agency Name			Agency Type		Total Grants / Funds Received by CoE Facility exists in Campus (In Rupees)			
2	Center for Excellence Combedded Systems	2017	Pre-Incubation, Innovation Labs, IPR Cell/Technology Transfer Centre, Student Clubs	TEQIP	Facility Incharge Name	Ashwin Kothari	9	Yes	Yes		No
					Facility Incharge Email	ashwin.kothari@ece.vnit.ac.in			Total Annual Income from Training and Skill Development Services (In Rupees)	300000	
					Facility Incharge Phone	9890164705			Total Annual Income from (Technical and Business) Mentoring Services (In Rupees)	0	
									Total Annual Income from Office Space and Rental Services to Start-ups/Innovators (In Rupees)	0	

Section 3 > ii > c : List the Incubation Facilities at the HEI (>= 1500 Sq. Ft. Floor Area)

No Data Filled!

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

No Data Filled!

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	Shashikant Chaudhari	Entrepreneurship/Startup Development	Unstructured Mentorship
2	Uday Kamat	Entrepreneurship/Startup Development	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

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	novel method of making neem based powder bio pesticide	Process Innovation	Technological	DST	Faculty	TRL 5 : Large scale prototype tested in intended environment.	TRL 9 : Full commercial application, technology available for consumers.	Innovation Development Completed	Agency Name Greeno vate Agr otech	Agency Type Not-Gov t. Age ncie s	Awar d / Positi on / Reco gnitio n Secu red Tecnol ogy Pur cha sed	No	No	No	No
---	--	--------------------	---------------	-----	---------	---	--	----------------------------------	--------------------------------------	--------------------------------------	---	----	----	----	----

Name	Type	Gender	Email	Contact
Sachin Mandavgane	Faculty	Male	sam@che.vnit.ac.in	9823246239

Name	Type	Gender	Email	Contact
Sonali Tajne	Faculty	Female	aphiwarkar@che.vnit.ac.in	7387838538

2	Duct cleaning robots	Product Innovation	Technological	Funded by Company Nirmiti Robotics Nagpur	Student	TRL 8 : First of a kind commercial system. Manufacturing issues solved.	TRL 9 : Full commercial application, technology available for consumers.	Innovation Development Completed	Agency Name Nir miti Rob otic s Nag pur	Agency Type Not-Gov t. Age ncie s	Awar d / Positi on / Reco gnitio n Secu red Tecnol ogy Pur cha sed	No	No	No	No
---	----------------------	--------------------	---------------	---	---------	---	--	----------------------------------	--	--------------------------------------	---	----	----	----	----

Name	Type	Gender	Email	Contact
Swapnil Hattarge	Student	Male	hattarges@gmail.com	7709778790

3	Nasal Forceps	Product Innovation	Technological	Om Surgical Mumbai	Faculty	TRL 8 : First of a kind commercial system. Manufacturing issues solved.	TRL 9 : Full commercial application, technology available for consumers.	Innovation Development Completed	Agency Name	Om Surgicals	No	No	No	No
									Agency Type	Not-Govt. Agencies				
									Award / Position / Recognition Secured	Technology Purchased				

Name	Type	Gender	Email	Contact
Rashmi Uddanwadikar	Faculty	Female	rvuddanwadikar@mec.vnit.ac.in	9881239509

4	Fractional order position controlled PMSM drive	Process Innovation	Technological	TEQIP III	Faculty	TRL 3 : Applied research. First laboratory tests completed; proof of concept.	TRL 7 : Demonstration system operating in operational environment at pre-commercial scale.	Innovation Development Ongoing	Agency Name	YASKAWA Bangalore	No	No	No	No
									Agency Type	Not-Govt. Agencies				
									Award / Position / Recognition Secured	Technology Purchased				

Name	Type	Gender	Email	Contact
Mohan Aware	Faculty	Male	mvaware@eee.vnit.ac.in	9373225111

5	Organic soil rejuvenator and plant micro nutrient	Product Innovation	Technological		Faculty	TRL 6 : Prototype system tested in intended environment close to expected performance.	TRL 9 : Full commercial application, technology available for consumers.	Innovation Development Completed	No	No	Grant Amount in Rs 300000	No	No
Name		Type			Gender		Email		Contact				
Sachin Mandavgane		Faculty			Male		mandavgane@gmail.com		9823246329				
Name		Type			Gender		Email		Contact				
Rahul Satpute		Innovator/Entrepreneur External to Institute			Male		-		8379083565				
6	Development of functionalized nano fibrous product in application for the protection from Environmental Hazards	Product Innovation	Technological	TEQIP III	Faculty	TRL 6 : Prototype system tested in intended environment close to expected performance.	TRL 9 : Full commercial application, technology available for consumers.	Innovation Development Completed	No	No	Grant Amount in Rs 250000	No	No
Name		Type			Gender		Email		Contact				
Sandipan Halder		Faculty			Male		sandipanhaldar@chm.vnit.ac.in		8583988181				
Name		Type			Gender		Email		Contact				
Sandip Patil		Innovator/Entrepreneur External to Institute			Male		-		9451222560				

Section 5 : List all the Ventures/Startups/SME Units Established with Support of Pre-incubation & Incubation facilities at the HEI

Sr no	Name of the Venture/Startup/SME Unit Established with the Support of HEI	Type of Innovation of Venture/Startup/SME Unit	Nature of Innovation	Name of the Pre-Incubation/Incubation Unit of HEI Supported Innovation Development	Venture Founded by	Venture Registered as	Year of Registration	What is the current status of Pre-Incubation/Incubation Support to Venture/Startup/SME Unit as on 31st March 2020?	Had the Venture Received any Recognition at State, National, International Level Programs 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 Venture establishment during the financial period 2019-20?	Had the venture/startup 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 venture/startup for the pre-incubation/incubation support and the services offered by Pre-incubation/incubation or institute during the financial period 2019-20?	Has the Startup Grown to a stage of Employment Generation to 10 Numbers or an annual Turnover to Rs. 50 Lakhs during the financial year 2019-20?																		
														Agency Name	Agency Type	Award / Position / Recognition Secured															
1	DICULAM PRIVATE LIMITED	Product Innovation	Technological	5022	Student	Venture with Corporate Identification Number (CIN) Registration U33111PN2020PTC191269	2019-20	Received Incubation Support from Incubation Unit	<table border="1"> <tr> <td>Agency Name</td> <td>IIGP 2.0</td> </tr> <tr> <td>Agency Type</td> <td>Govt. Agency (Central)</td> </tr> <tr> <td>Award / Position / Recognition Secured</td> <td>5000000 Grant</td> </tr> </table>	Agency Name	IIGP 2.0	Agency Type	Govt. Agency (Central)	Award / Position / Recognition Secured	5000000 Grant	No	No	No	No												
Agency Name	IIGP 2.0																														
Agency Type	Govt. Agency (Central)																														
Award / Position / Recognition Secured	5000000 Grant																														
<table border="1"> <thead> <tr> <th>Name</th> <th>DIN number</th> <th>Type</th> <th>Gender</th> <th>Email</th> <th>Contact</th> </tr> </thead> <tbody> <tr> <td>Pranav Sapkal</td> <td>08762315</td> <td>Student</td> <td>Male</td> <td>pranav_sapkal@rediffmail.com</td> <td>9923080976</td> </tr> <tr> <td>Avunoori Sampath Prashanth Ray</td> <td>08762317</td> <td>Student</td> <td>Male</td> <td>asprasahanth23@gmail.com</td> <td>9145533483</td> </tr> </tbody> </table>														Name	DIN number	Type	Gender	Email	Contact	Pranav Sapkal	08762315	Student	Male	pranav_sapkal@rediffmail.com	9923080976	Avunoori Sampath Prashanth Ray	08762317	Student	Male	asprasahanth23@gmail.com	9145533483
Name	DIN number	Type	Gender	Email	Contact																										
Pranav Sapkal	08762315	Student	Male	pranav_sapkal@rediffmail.com	9923080976																										
Avunoori Sampath Prashanth Ray	08762317	Student	Male	asprasahanth23@gmail.com	9145533483																										
2	Precisurg Pvt Ltd	Product Innovation	Technological	5022	Student	Venture with Corporate Identification Number (CIN) Registration U33119PN2019PTC185636	2019-20	Received Incubation Support from Incubation Unit	<table border="1"> <tr> <td>Agency Name</td> <td>IIGP 2.0</td> </tr> <tr> <td>Agency Type</td> <td>Govt. Agency (Central)</td> </tr> <tr> <td>Award / Position / Recognition Secured</td> <td>5000000 Grant</td> </tr> </table>	Agency Name	IIGP 2.0	Agency Type	Govt. Agency (Central)	Award / Position / Recognition Secured	5000000 Grant	No	No	No	No												
Agency Name	IIGP 2.0																														
Agency Type	Govt. Agency (Central)																														
Award / Position / Recognition Secured	5000000 Grant																														

Name	DIN number	Type	Gender	Email	Contact
Dr. Sandeep Dahake	08518691	Student	Male	precisurg@gmail.com	9096368740
Megha Kulkarni	08518692	Student	Female	-	-

3	OKO ICARE SOLUTIONS PRIVATE LIMITED	Product Innovation	Technological	5022	Student	<div style="background-color: #003366; color: white; padding: 5px;"> Venture with Corporate Identification Number (CIN) Registration </div>	U33309PN 2019PTC18 5610	2019-20	Received Incubation Support from Incubation Unit	<table border="1"> <tr> <td>Agency Name</td> <td>IIGP 2.0</td> </tr> <tr> <td>Agency Type</td> <td>Govt. Agency (Central)</td> </tr> <tr> <td>Award / Position / Recognition Secured</td> <td>5000000 Grant</td> </tr> </table>	Agency Name	IIGP 2.0	Agency Type	Govt. Agency (Central)	Award / Position / Recognition Secured	5000000 Grant	No	No	No	No
Agency Name	IIGP 2.0																			
Agency Type	Govt. Agency (Central)																			
Award / Position / Recognition Secured	5000000 Grant																			

Name	DIN number	Type	Gender	Email	Contact
NEHA LANDE	08517530	Student	Female	nehalande89@gmail.com	8087645687
ASHISH ANDRASKAR	08517531	Student	Male	-	-

Section 7 > i : 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	IC Electrical Co. Pvt.Ltd. (ICE), Haridwar	Non-Govt. Agencies	Collaboration with Startups/Industry Associations/Knowledge Agencies to Promote I&E Activities and/or Internship Opportunities	Mentoring	3	18-07-2019
2	Purti Enterprises Pvt. Ltd. Nagpur	Non-Govt. Agencies	Collaboration with Startups/Industry Associations/Knowledge Agencies to Promote I&E Activities and/or Internship Opportunities	Mentoring	3	06-03-2019
3	Agile Connect Pvt. Ltd. Nagpur	Non-Govt. Agencies	Collaboration with Startups/Industry Associations/Knowledge Agencies to Promote I&E Activities and/or Internship Opportunities	Mentoring	2	05-03-2019
4	Research for Resurgence Foundation, Nagpur	Non-Govt. Agencies	Collaboration with Startups/Industry Associations/Knowledge Agencies to Promote I&E Activities and/or Internship Opportunities	Mentoring	3	01-03-2019
5	Merino Industries Ltd. Hapur, UP, India	Non-Govt. Agencies	Collaboration with Startups/Industry Associations/Knowledge Agencies to Promote I&E Activities and/or Internship Opportunities	Mentoring	3	20-02-2019

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	A Mechanical Splice Coupler	201921017239A	National	2019 - 04	NA
2	A Mechanical Nut Coupler for Single Rebar	PCT/IB2020/05	International	2019 - 04	Uploaded

3	A Process for A Synthesis of Highly Functionalized 2,5-Disubstituted Tetrahydrofuran Derivatives	201921036987	National	2019 - 10	Uploaded
4	A method of preparing iron oxide nanoparticles of controlled-shapes and a tunable size	201921036489	National	2019 - 09	Uploaded
5	Self-Healing of Cracks of Cementitious Materials through Bacillus Cereus Mh510336.	201921013556	National	2019 - 04	Uploaded
6	Variable inductor & Variable capacitor for modern electrical Power Systems and for superior tuned oscillators	201921011347	National	2019 - 05	Uploaded
7	Navigation System for a Vehicle and Method For Navigation	201921049473	National	2019 - 12	Uploaded
8	A System for Detection and Identification of Fault in Thermostatically Controlled Loads	20192108242	National	2019 - 05	Uploaded
9	Method for Allocating Sensors in a Building	20192108534	National	2019 - 05	Uploaded
10	Dual Hybrid Multilevel Converter	202021004129	National	2020 - 01	Uploaded
11	A side tilt mechanism for bed having simultaneous operation on with backrest mechanism	201921052556	National	2019 - 12	Uploaded
12	MULTIPLE INPUT MULTIPLE OUTPUT DIFFUSION BASED MOLECULAR COMMUNICATION SYSTEM	201921038157	National	2019 - 09	Uploaded