



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: BMS Institute of Technology & Management [ARI-C-1336]

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	Department of Computer Science and Engineering	Academic Department with lab facility	Image Processing and Computer Vision, High Performance Computing, Internet of Things, Computer Networks, High Performance Computing, Network Security, Cloud Computing, Blockchain, Machine Learning, DBMS, Embedded Systems & Robotics, system designing, Logical & Physical Designing, Software Engineering, Information management	UG / PG / PhD	Technical	700	30	7
2	Department Information Science and Engineering	Academic Department with lab facility	Image Processing and Computer Vision, High Performance Computing, Internet of Things, Computer Networks, High Performance Computing, Network Security, Cloud Computing, Blockchain, Machine Learning, DBMS, Embedded Systems & Robotics, system designing, Logical & Physical Designing, Software Engineering, Information management	UG / PG / PhD	Technical	437	13	4

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3	Department of Mechanical Engineering	Academic Department with lab facility	Robotics & Neural Engineering, Aerodynamics and Fluid Mechanics, Biomechanics, Combustion and Energy Systems, Design and Manufacturing, Dynamics and Control, Materials and Structures, Vibrations, Acoustics and Fluid-Structure Interaction, Nanotechnology / MEMS, Petroleum Engineer, Aerospace Engineer	UG / PG / PhD	Technical	200	19	9
4	Department of Civil Engineering	Academic Department with lab facility	Coastal Engineering. Transportation Engineering. Construction Engineering. Structural Engineering. Earthquake Engineering. Environmental Engineering. Geotechnical Engineering. Water Resources Engineering, Urban Engineering	UG / PG / PhD	Technical	240	9	5
5	Department of Electronics and Telecommunication Engineering	Academic Department with lab facility	Computer communications and networking. Mobile communications Systems, Network Architectures and Protocols, Voice and data networks. TV and radio broadcasting, Antennas and Electromagnetic Propagation, Multimedia Digital Signal Processing, Cybersecurity, Optical networking, Remote sensing, measurement and control, Internet and Multimedia	UG / PG / PhD	Technical	166	11	6

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6	Department of Electronics and communication Engineering	Academic Department with lab facility	Signal Processing , Control Engineering , Instrumentation Engineering, Computer Engineering , VLSI design Engineering , Mechatronics & Systems Control Digital & Analog Electronics Communications, Embedded system, Networking , Microwave , Wireless Communication , radio engineering, telecommunications, control systems, systems engineering, computer engineering, robotics, consumer electronics, power electronics	UG / PG / PhD	Technical	632	28	7
7	Department of Artificial Intelligence and Machine Learning	Academic Department with lab facility	Reinforcement learning, Generative models, Networks with memory, Hardware for training and inference Simulation environments, Implicit VS Explicit Signals, Internet of Things, Autonomous Vehicles Radiomics, Human Computer Interface, Big Data Analytics, Deep Learning, Soft Computing, Advanced Algorithms, Natural Language Processing, Speech and Signal Processing, AI and ML Framework, Game Theory, Robotic Operating Systems, Computer Vision: Foundations and Applications, Robotic Process Automat	UG / PG / PhD	Technical	57	4	1
8	Master of computer applications	Academic Department with lab facility	Systems Management Management Information Systems (MIS) Systems Development Systems Engineering Networking Internet working Application Software Software Development Troubleshooting Hardware Technology	UG / PG / PhD	Technical	105	12	2

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9	Innovation Centre	Pre-incubation unit	Information Technology, Automobile, Aerospace, IOT, Consumer/FMCG, Health Care, Consumer Discretionary, Communication Services, Industrials, Consumer Staples, Energy, Telecom, Geographic Information System	UG / PG / PhD	Technical	350	22	1
10	Entrepreneurship Development Cell	Incubation Unit	Information Technology, Automobile, Aerospace, IOT, Consumer/FMCG, Health Care, Consumer Discretionary, Communication Services, Industrials, Consumer Staples, Energy, Telecom, Geographic Information System	UG / PG / PhD	Technical	150	4	1
11	Incubation Centre	Incubation Unit	Information Technology, Automobile, Aerospace, IOT, Consumer/FMCG, Health Care, Consumer Discretionary, Communication Services, Industrials, Consumer Staples, Energy, Telecom, Geographic Information System	UG / PG / PhD	Technical	150	13	1
12	Department of Electrical and Electronics Engineering	Academic Department with lab facility	•Electronics. •Signal Processing. •Computer Engineering. •Power Electronics. •Embedded Systems. •Power Electronics •Communications •Nanotechnology •Embedded Systems •Biomedical Imaging •Hardware •Power Systems engineering (including renewable energy) , Control	UG / PG / PhD	Technical	228	15	6
13	EDGATE TECHNOLOGIES- Texas Instruments Innovation Lab	Centre of Excellence with Advance Tools & Equipment	Embedded System and IOT	UG / PG / PhD	Technical	71	8	3
14	Automation Anywhere	Centre of Excellence with Advance Tools & Equipment	Robotic Process Automation	UG / PG / PhD	Technical	60	6	1
15	Toyota Centre of Excellence	Centre of Excellence with Advance Tools & Equipment	Mechanical Engineering and Allied	UG / PG / PhD	Technical	270	10	8

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

16	IPR Cell	IPR Cell / Patent Facilitation Unit / Technology Transfer Centre	Patents and Copyrights	UG / PG / PhD	Technical	400	27	1
17	Departments of Physics	Academic Department with lab facility	Basic Physics/ Applied Physics	UG / PG / PhD	Both	450	7	2
18	Department of Chemistry	Academic Department with lab facility	Chemistry/ Applied Chemistry	UG / PG / PhD	Both	450	7	3
19	Department of Mathematics	Academic Department with lab facility	Higher Engineering Mathematics	UG / PG / PhD	Both	450	10	0
20	Department of Computer Science and Engineering	Research Unit / Park	Image Processing and Computer Vision, Internet of Things, Computer Networks, High Performance Computing, Network Security	UG / PG / PhD	Technical	11	6	7
21	Department Information Science and Engineering	Research Unit / Park	IOT, Blockchain, Cyber Security, Network Security, IoT, Data Science	UG / PG / PhD	Technical	8	2	4
22	Department of Mechanical Engineering	Research Unit / Park	Combustion Engineering, Nano Technology, Heat Transfer, Thermodynamic Applications, Materials, Biofuels, Dynamics, Materials and Structures, Vibrations, Acoustics and Fluid-Structure Interaction	UG / PG / PhD	Technical	12	8	9
23	Department of Mathematics	Research Unit / Park	Fluid Mechanics, Approximation Theory, Queueing Theory, Graph Theory, Numerical Techniques, Number Theory 9, 6	UG / PG / PhD	Both	6	6	0
24	Department of Electronics and communication Engineering	Research Unit / Park	Antenna, Signal processing, Antenna design, Signal processing and communication, HDL/VLSI , Embedded Systems,	UG / PG / PhD	Technical	18	6	7
25	Department of Electronics and Telecommunication Engineering	Research Unit / Park	Antennas and Electromagnetic Propagation, Multimedia Digital Signal Processing, Cybersecurity, Optical networking, Remote sensing, measurement and control, Internet and Multimedia	UG / PG / PhD	Technical	4	2	6

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26	Master of Computer Applications	Research Unit / Park	Image Processing and Computer Vision, Internet of Things, High Performance Computing,	UG / PG / PhD	Technical	4	3	2
27	Departments of Physics	Research Unit / Park	Material Science Research, Nanoscience	UG / PG / PhD	Both	6	2	2
28	Department of Electrical and Electronics Engineering	Research Unit / Park	High Voltage Engineering, Digital electronics, Power Electronics, Communications, Power Systems engineering (including renewable energy)	UG / PG / PhD	Technical	8	3	6
29	Department of Chemistry	Research Unit / Park	High Performance Rechargeable batteries	UG / PG / PhD	Both	6	3	3
30	ISE-AKSHATH SOLUTIONS	Industry Institute Interface Unit	Software Product	UG / PG / PhD	Technical	2500	169	46
31	CSE- H K GROUPS	Industry Institute Interface Unit	Software Product	UG / PG / PhD	Technical	3500	169	116
32	Civil- Medini Pvt. Ltd.	Industry Institute Interface Unit	Training on Civil Engineering Softwares	UG / PG / PhD	Technical	40	8	5
33	Eco-Paradigm Pvt. Ltd.	Industry Institute Interface Unit	Environmental and geotechnical engineering	UG / PG / PhD	Technical	43	8	5
34	TATA ELXSI	Industry Institute Interface Unit	Embedded System	UG / PG / PhD	Technical	11	2	1
35	STEINBEIS INDIA	Industry Institute Interface Unit	Data Management	UG / PG / PhD	Technical	4	1	1
36	ATS Infotech Pvt. Ltd.	Industry Institute Interface Unit	Cross platform mobile application	UG / PG / PhD	Technical	121	2	2
37	Flutech Engineering Pt. Ltd.	Industry Institute Interface Unit	Enterprise Resource Planning	UG / PG / PhD	Technical	121	2	1
38	NCS - Nihon Communication (P) Ltd.	Industry Institute Interface Unit	Networks	UG / PG / PhD	Technical	10	4	2
39	INDIAN TEKEYS	Industry Institute Interface Unit	Networks	UG / PG / PhD	Technical	35	3	2
40	Federal Mogul Geotz Limited	Industry Institute Interface Unit	Manufactuting	UG / PG / PhD	Technical	30	4	1
41	NITK Virtual Lab	Industry Institute Interface Unit	Training at labs for mulitpe departments	UG / PG / PhD	Technical	102	7	2
42	Kshipra Simulations Pvt. Ltd.	Industry Institute Interface Unit	CNC Programming	UG / PG / PhD	Technical	8	1	1
43	Technilab Instruments	Industry Institute Interface Unit	HDL programming using Xilinx	UG / PG / PhD	Technical	4	1	1

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44	PIA Peenya Industrial Association	Industry Institute Interface Unit	Software Programming	UG / PG / PhD	Technical	68	7	2
45	ELINTZ Labz	Industry Institute Interface Unit	DGMOS research and development	UG / PG / PhD	Technical	18	1	1
46	Pushkala Technologies	Industry Institute Interface Unit	Software Programming	UG / PG / PhD	Technical	36	2	1
47	EKZEN Robotics	Industry Institute Interface Unit	Industry Manufacturing	UG / PG / PhD	Technical	14	2	1
48	Prolific systems Pvt. Ltd.	Industry Institute Interface Unit	Industrial Automation	UG / PG / PhD	Technical	19	1	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	Yes	Not Required
Establishment of Institution's Innovation Council (IIC) at HEI	YES	IIC Registration ID : IC201811319
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)	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	Organizin g Departm ent / Centre / Student Body Name	Program Start Date	Program End Date	Program Duration(in Days)	Program Location	Internal Participa nts (Student)	Internal Participa nts (Faculty)	External Participa nts (Student)	External Participa nts (Faculty)	Total Number of Participa nts	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	Project Based Learning-Open Day 2019	Innovatio n	Innovatio n Contest	Institute Lead Activity	Innovatio n Centre	11-04-2019 00:00:00	12-04-2019 00:00:00	2	Within Campus	1650	166	0	0	1816	Total Expense Amount Incurred by Institute to Organise the Program (In Rupees)	280000	Award / Position / Recognition Secured	Frist Prize	
																		Title of Innovation / Start-up Secured the Award / Recognition	Automatic Collaborativ e Robotic Arm
																		Award/Recog nition/Achieve ment Received for	Idea/Innova tion/Prototy pe

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

2	Techtransform 2019	Entrepreneurship/Startup, Innovation	Innovation Contest	Institute Lead Activity	Innovation Centre	05-11-2019 00:00:00	05-11-2019 00:00:00	1	Within Campus	1500	166	0	0	1666	Total Expense Amount Incurred by Institute to Organise the Program (In Rupees)	220000	No						
3	Innovation Day	Innovation	Workshop	Institute Lead Activity	Innovation Centre	17-04-2019 00:00:00	17-04-2019 00:00:00	1	Within Campus	400	25	0	0	425	Total Expense Amount Incurred by Institute to Organise the Program (In Rupees)	10000	No						
4	Tedx	Innovation	Awareness	Institute Lead Activity	Innovation Centre	20-02-2020 00:00:00	20-02-2020 00:00:00	1	Within Campus	180	30	10	0	220	Total Expense Amount Incurred by Institute to Organise the Program (In Rupees)	100000	No						
5	Schedule for Entrepreneurship Camp (EAC)	Entrepreneurship/Startup	Skill development	Institute Lead Activity	Entrepreneurship Development Cell	10-02-2020 00:00:00	15-02-2020 00:00:00	6	Within Campus	450	40	20	4	514	Total Expense Amount Incurred by Institute to Organise the Program (In Rupees)	50000	No						
6	Anveshana 3.0	Innovation	Ideation	Institute Lead Activity	Innovation Centre	10-12-2019 00:00:00	10-03-2020 00:00:00	92	Within Campus	250	18	0	4	272	Total Expense Amount Incurred by Institute to Organise the Program (In Rupees)	40000	<table><tr><td>Award / Position / Recognition Secured</td><td>First Prize</td></tr><tr><td>Title of Innovation / Start-up Secured the Award / Recognition</td><td>Cattle Health Diagnosing Software</td></tr><tr><td>Award/Recognition/Achievement Received for</td><td>Idea/Innovation/Prototype</td></tr></table>	Award / Position / Recognition Secured	First Prize	Title of Innovation / Start-up Secured the Award / Recognition	Cattle Health Diagnosing Software	Award/Recognition/Achievement Received for	Idea/Innovation/Prototype
Award / Position / Recognition Secured	First Prize																						
Title of Innovation / Start-up Secured the Award / Recognition	Cattle Health Diagnosing Software																						
Award/Recognition/Achievement Received for	Idea/Innovation/Prototype																						
7	Workshop on Patentability of Invention	IPR	Training	Institute Lead Activity	BMSITM IPR Cell	29-11-2019 00:00:00	29-11-2019 00:00:00	1	Within Campus	100	50	30	20	200	Total Expense Amount Incurred by Institute to Organise the Program (In Rupees)	5000	No						

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

8	Innovation Day Celebration in association with Innovation Centre, BMSIT	IPR, Innovation	Training	Institute Lead Activity	BMSIT IPR Cell	07-11-2019 00:00:00	07-11-2019 00:00:00	1	Within Campus	120	20	20	5	165	Total Expense Amount Incurred by Institute to Organise the Program (In Rupees)	5000	No
9	Seminar on Importance of Intellectual Property for Research & Start-up	Entrepreneurship/Start-up	Workshop	Institute Lead Activity	BMSIT IPR Cell	10-10-2019 00:00:00	10-10-2019 00:00:00	1	Within Campus	125	20	25	10	180	Total Expense Amount Incurred by Institute to Organise the Program (In Rupees)	3000	No
10	Patent as a Power Tool for Development	Entrepreneurship/Start-up	Workshop	Institute Lead Activity	BMSIT IPR Cell	30-04-2019 00:00:00	30-04-2019 00:00:00	1	Within Campus	125	20	15	5	165	Total Expense Amount Incurred by Institute to Organise the Program (In Rupees)	3000	No
11	Awareness camp on Entrepreneurship	IPR, Entrepreneurship/Start-up, Innovation	Awareness	Institute Lead Activity	BMSIT Incubation Centre	22-01-2020 00:00:00	25-01-2020 00:00:00	4	Within Campus	150	20	10	2	182	Total Expense Amount Incurred by Institute to Organise the Program (In Rupees)	50000	No
12	Orientation Session Innovation Centre	Innovation	Orientation Session	Institute Lead Activity	Innovation Centre	03-08-2019 00:00:00	17-08-2019 00:00:00	15	Within Campus	936	20	0	0	956	No		No
13	EAC (Entrepreneurship Awareness Camp) Sponsored by Dept of Science and Technology, Govt. of India and EDII, Ahmedabad	Entrepreneurship/Start-up	Awareness	Student Lead Activity	Computer Science and Information Science Engineering	12-02-2020 00:00:00	12-02-2020 00:00:00	1	Outside Campus	85	5	0	0	90	Total Expense Amount Incurred by Institute to Organise the Program (In Rupees)	40000	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)	Program Theme	Program Type	Organizing Agency / Institute	Organizing Agency Type	Program Start Date	Program End Date	Program Duration (in Days)	Participants (Students)	Participants (Faculty)	Total Number of	Awards/Recognitions/Achievements	Award / Position / Recognition	Title of Innovation / Start-up	Had institute spent expenses either from own resource/ received fund towards sending	Did any of the participants received any awards/recognition for startup / innovation ideas /
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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

	Name)			Name)		Participa nts	ements	on Secured	up Secured the Award / Recogniti on	delegation to participate / represent the activity /event?		research		
1	Smart India Hackatho n 2020, intra- college hackatho n	Innovatio n	Hackatho n	Innovatio n Centre	Educatio nal Institute	10-01-20 20 00:00:00	11-01-20 20 00:00:00	2	40	0	40	Yes	First Prize	A communi cation aid for the motor disabled	TotalTotal Expense Amount Incurred by Institute? (In Rupees)	10000	Award / Position / Recognition Secured	First Prize	
																		Title of Innovation / Start-up Secured the Award / Recognition	A communica tion aid for the motor disabled
																			Award/Recog nition/Achie vement Received for
2	Fight Corona IDEAthon	Innovatio n	Innovatio n Contest	AICTE	Govt. Agency (Central)	27-03-20 20 00:00:00	28-03-20 20 00:00:00	2	56	0	56	No	---	---	No		No		

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	Management and Entrepreneurship	Entrepreneurship/Startup	Elective/Core Credit Course	Credit Course (Compulsory)	All departments	01-09-2019	22-01-2020	144	Offline	800	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	Open course and industry visit	IPR, Entrepreneurship/Startup, Innovation	FDP in I&E / IPR	Computer Science and Engineering	10-02-2020	15-02-2020	6	Offline	150	30
2	Entrepreneurship awareness camp- National science technology and entrepreneurship development board	IPR, Entrepreneurship/Startup, Innovation	EDP in I&E / IPR	BMSITM Incubation Centre	02-01-2020	09-01-2020	8	Offline	150	35
3	Open course and industry visit AIML	IPR, Entrepreneurship/Startup, Innovation	EDP in I&E / IPR	Intelligent IoT	22-10-2019	25-10-2019	4	Offline	30	30
4	Open course and industry visit CSE	IPR, Entrepreneurship/Startup, Innovation	EDP in I&E / IPR	Computer Science and Engineering	16-06-2020	19-06-2020	4	Offline	30	30

5	Open Course on DESIGN AND MODELLING OF DC TO DC CONVERTERS	IPR, Entrepreneurship/Startup, Innovation	EDP in I&E / IPR	DEPARTMENT OF ELECTRICAL ELECTRONICS ENGINEERING	16-06-2020	20-06-2020	5	Offline	25	30
6	Electromagnetic frequency spectrum	IPR, Entrepreneurship/Startup, Innovation	Employment Generation Training Programs	DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING	16-06-2020	20-06-2020	5	Offline	71	30
7	Programming Languages and Tools- A placement Perspective	IPR, Entrepreneurship/Startup, Innovation	Employment Generation Training Programs	DEPARTMENT OF ELECTRONICS AND TELECOMMUNICATION ENGINEERING	16-06-2020	19-06-2020	4	Offline	53	30
8	Problem Solving using C C plus plus Programming with Hands on session	IPR, Entrepreneurship/Startup, Innovation	Employment Generation Training Programs	Department of Electronics and Telecommunication Engineering	22-06-2020	26-06-2020	5	Offline	49	30
9	Open course on web development blockchain and data science and microprocessor and microcontroller hands on	IPR, Entrepreneurship/Startup, Innovation	Employment Generation Training Programs	Department of Information Science and Engineering	12-02-2019	16-02-2019	5	Offline	150	40
10	Engineering Optimization Techniques with Real Life Applications	IPR, Entrepreneurship/Startup, Innovation	Employment Generation Training Programs	DEPARTMENT OF MATHEMATICS	12-02-2019	16-02-2019	5	Offline	68	40
11	Fusion 360 and 3D Printing and Concepts in Mechanical Engineering for Competitive Exams	IPR, Entrepreneurship/Startup, Innovation	Employment Generation Training Programs	DEPARTMENT OF MECHANICAL ENGINEERING	22-10-2019	26-10-2019	5	Offline	48	40
12	Thin film technology and opto-electronic devices	IPR, Entrepreneurship/Startup, Innovation	Employment Generation Training Programs	DEPARTMENT OF PHYSICS	16-06-2020	20-06-2020	5	Offline	6	40
13	Novel Materials for Current Technological Trends NMCTT	IPR, Entrepreneurship/Startup, Innovation	Employment Generation Training Programs	Department of physics	22-10-2019	26-10-2019	5	Offline	25	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	Dr. Santosh Kumar	Innovation Centre			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
		Innovation Ambassador- Design thinking & Innovations	Innovation	Short term Certificate	MoE Innovation Cell	Govt. Agency (Central)	26-02-2020 00:00:00	27-02-2020 00:00:00	2	Offline
2	Dr. Sheela	Innovation Centre			Coordinator	No		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

No Data Filled!

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)

No Data Filled!

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

No Data Filled!

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	Mrs. Padmaja S	Entrepreneurship/Startup Development	Unstructured Mentorship
2	Mr. Senthil Kumar	IPR Protection & Commercialization	Unstructured Mentorship
3	Dr. Keshav Munegowda	Idea/Innovation Development	Unstructured Mentorship
4	Kishore Jagirdhar	Entrepreneurship/Startup Development	Unstructured Mentorship
5	Dr. ANANTHAPADHMANABHA ACHAR	Entrepreneurship/Startup Development	Unstructured Mentorship
6	Mr. SHASHANK R. N	Entrepreneurship/Startup Development	Unstructured Mentorship
7	Mr. C.S. Prakash	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	SHUDH (Automatic Sanitizer Dispenser)	Product Innovation	Technological	innovation labs	Faculty	TRL 4 : Small scale prototype built in a laboratory environment ("ugly" prototype).	TRL 6 : Prototype system tested in intended environment close to expected performance.	Innovation Development Ongoing	No	No	No	No	No
	Name					Type			Gender		Email		Contact
	Dr. Bharathi Malakreddy A					Faculty			Female		bharathi_m@bmsit.in		9448347885
	Name					Type			Gender		Email		Contact
2	Medical Assist BoT	Product Innovation	Technological	Innovation Labs	Faculty	TRL 4 : Small scale prototype built in a laboratory environment ("ugly" prototype).	TRL 4 : Small scale prototype built in a laboratory environment ("ugly" prototype).	Innovation Development Ongoing	No	No	No	No	No
	Name					Type			Gender		Email		Contact
	Mr. Harinath H N					Staff			Female		harinath_hn@bmsit.in		9986028085
	Name					Type			Gender		Email		Contact
	Dr. Bharathi Malakreddy A					Faculty			Female		bharathi_m@bmsit.in		9448347885

	Name				Type				Gender			Email		Contact
	Mr. Harinath H N				Faculty				Male			harinath_hn@bmsit.in		9986028085
3	A communication aid for people with motor disabilities	Product Innovation	Technol ogical	Innovati on Labs	Facul ty	TRL 2 : Tech nolog y formu lation . Conc ept and applic ation have been formu lated.	TRL 2 : Tech nolog y formu lation . Conc ept and applic ation have been formu lated.	Innovati on Develop ment Ongoing	No	No	No	No	No	
	Name				Type				Gender			Email		Contact
	Dr. Thippeswamy G				Faculty				Male			gt_swamy@bmsit.in		9448864856
	Name				Type				Gender			Email		Contact
DRISHTI RAMESH				Student				Female			drishti.ramesh1@gmail.com		8884649555	
4	Pothole Detection System	Product Innovation	Technol ogical	Innovati on Labs	Facul ty	TRL 2 : Tech nolog y formu lation . Conc ept and applic ation have been formu lated.	TRL 2 : Tech nolog y formu lation . Conc ept and applic ation have been formu lated.	Innovati on Develop ment Ongoing	No	No	No	No	No	
	Name				Type				Gender			Email		Contact
	Dr. Hemamalini B.H				Faculty				Female			bhhemaraj@bmsit.in		7204844628
	Name				Type				Gender			Email		Contact
AKSHAY PADESUR				Student				Male			akshay.padesur@gmail.com		7204844628	

5	Study on Feasibility and Implementation of Brain Computer Interface for Home Automation	Product Innovation	Technol ogical	Innovati on Labs	Facul ty	TRL 2 : Tech nolog y formu lation . Conc ept and applic ation have been formu lated.	TRL 2 : Tech nolog y formu lation . Conc ept and applic ation have been formu lated.	Innovati on Develop ment Ongoing	No	No	No	No	No	
	Name				Type				Gender		Email			Contact
	Dr. Bharathi M A				Faculty				Female		bharathi_m@bmsit.in			9448347885
Name				Type				Gender		Email			Contact	
RIDWAN UL HAQ				Student				Male		ridwanshafi@outlook.com			9448347885	
6	Prediction Of Yield And Price Forecasting For Indian Based Crops Using Machine Learning	Product Innovation	Technol ogical	Innovati on Labs	Facul ty	TRL 2 : Tech nolog y formu lation . Conc ept and applic ation have been formu lated.	TRL 2 : Tech nolog y formu lation . Conc ept and applic ation have been formu lated.	Innovati on Develop ment Ongoing	No	No	No	No	No	
	Name				Type				Gender		Email			Contact
	Mrs. Srivani P				Faculty				Female		srivanicse@bmsit.in			8904021868
Name				Type				Gender		Email			Contact	
DIVYA S				Student				Female		Dshree05@gmail.com			8904021868	
7	AUTOMATED CURRENCY NOTES SANITIZATION MACHINE	Product Innovation	Technol ogical		Stude nt	TRL 4 : Small scale protot ype built in a labor atory envir onme nt ("ugly " protot ype).	TRL 4 : Small scale protot ype built in a labor atory envir onme nt ("ugly " protot ype).	Innovati on Develop ment Ongoing	No	No	No	No	No	

	Name				Type				Gender			Email			Contact	
	Prof. Robin Singla				Faculty				Male			robin@bmsit.in			9967346164	
	Name				Type				Gender			Email			Contact	
	Narmadha				Student				Female			robin@bmsit.in			9967346164	
8	AIR CONDITIONER USING E-WASTE	Product Innovation	Technol o gical		Stude nt	TRL 4 : Small scale protot ype built in a labor atory enviro nment ("ugly protot ype).	TRL 4 : Small scale protot ype built in a labor atory enviro nment ("ugly protot ype).	Innovati on Develop ment Ongoing	No	No	No	<div>Loan/Investment Agency Name</div> <div>Agency Type</div> <div>Total Loan/Angel Investment/VC Fund raised by Start-up during the period of pre-incubation/incubati on support at your Pre-incubation/incubati on or institute financial period 2019-20 (in Rupees)</div> <div>Date of Investment Raised</div>		No		
	Name				Type				Gender			Email			Contact	
	Prof. Raghunandan G H				Faculty				Male			raghunandangh@bmsit.in			9535009317	
	Name				Type				Gender			Email			Contact	
	Prof. Keerthi Kumar				Faculty				Male			keerthikumarn@bmsit.in			9743634934	
9	UAV BASED ARECANUT FRUIT CUTTER	Product Innovation	Technol o gical		Stude nt	TRL 4 : Small scale protot ype built in a labor atory enviro nment ("ugly protot ype).	TRL 4 : Small scale protot ype built in a labor atory enviro nment ("ugly protot ype).	Innovati on Develop ment Ongoing	No	No	No	No	No			
	Name				Type				Gender			Email			Contact	
	Prof. Raghunandan G H				Faculty				Male			raghunandangh@bmsit.in			9535009317	
	Name				Type				Gender			Email			Contact	
	Prof. Keerthi Kumar				Faculty				Male			keerthikumarn@bmsit.in			9743634934	

10	i-Trasher-A smart waste management system	Product Innovation	Technol o gical		Stude nt	TRL 4 : Small scale protot ype built in a labor atory envir onme nt ("ugly protot ype).	TRL 4 : Small scale protot ype built in a labor atory envir onme nt ("ugly protot ype).	Innovati on Develop ment Ongoing	No	No	No	No	No	
	Name				Type				Gender		Email			Contact
	Prof. Raghunandan G H				Faculty				Male		raghunandangh@bmsit.in			9535009317
	Name				Type				Gender		Email			Contact
Prof. Keerthi Kumar				Faculty				Male		keerthikumarn@bmsit.in			9743634934	
11	Bionic Arm	Product Innovation	Technol o gical		Stude nt	TRL 4 : Small scale protot ype built in a labor atory envir onme nt ("ugly protot ype).	TRL 4 : Small scale protot ype built in a labor atory envir onme nt ("ugly protot ype).	Innovati on Develop ment Ongoing	No	No	No	No	No	
	Name				Type				Gender		Email			Contact
	Prof. Thejaswini S				Faculty				Female		thejaswini.s@bmsit.in			9008637144
	Name				Type				Gender		Email			Contact
Prof. Thejaswini S				Faculty				Female		thejaswini.s@bmsit.in			9008637144	
12	Vigilant Image Sensing Intelligent drONE	Product Innovation	Technol o gical		Facul ty	TRL 4 : Small scale protot ype built in a labor atory envir onme nt ("ugly protot ype).	TRL 4 : Small scale protot ype built in a labor atory envir onme nt ("ugly protot ype).	Innovati on Develop ment Ongoing	No	No	No	No	No	
	Name				Type				Gender		Email			Contact
	Prof. Thejaswini S				Faculty				Female		thejaswini.s@bmsit.in			9008637144
	Name				Type				Gender		Email			Contact

	Name			Type				Gender		Email			Contact		
	Prof. Raghunandan G H			Faculty				Male		raghunandangh@bmsit.in			9535009317		
	Name			Type				Gender		Email			Contact		
	Prof. Bharathi R			Faculty				Female		bharavi_kumar@bmsit.in			9980876453		
13	SMART HELMET	Product Innovation	Technol ogical		Stude nt	TRL 4 : Small scale protot ype built in a labor atory envir onme nt ("ugly protot ype).	TRL 4 : Small scale protot ype built in a labor atory envir onme nt ("ugly protot ype).	Innovati on Develop ment Ongoing	Agenc y Name	DS T and Tex as Instr ume nts	No	Grant Amount in Rs	80000	No	No
	Name			Type				Gender		Email			Contact		
	Prof. Thejaswini S			Faculty				Female		thejaswini.s@bmsit.in			9008637144		
14	An approach to smart street using IOT applications	Product Innovation	Technol ogical		Stude nt	TRL 2 : Tech nolog y formu lation Conc ept and applic ation have been formu lated.	TRL 2 : Tech nolog y formu lation Conc ept and applic ation have been formu lated.	Innovati on Develop ment Ongoing	No	No	No	No	No	No	No

	Name				Type				Gender			Email		Contact
	Prof Swetha M S				Faculty				Female			swethams_ise2014@bmsit.in		9844690637
15	Cognitive base Data classification and Data Embedding in Image Steganagraphy using M L Algorithms.	Product Innovation	Technol ogical		Stude nt	TRL 2 : Tech nolog y formu lation . Conc ept and applic ation have been formu lated.	TRL 2 : Tech nolog y formu lation . Conc ept and applic ation have been formu lated.	Innovati on Develop ment Ongoing	No	No	No	No	No	No
	Name				Type				Gender			Email		Contact
	Ms.Yashaswini S				Student				Female			ushaba@bmsit.in		9880788509
16	Smart Bin Waste Management using IoT and Cloud	Product Innovation	Technol ogical		Stude nt	TRL 4 : Small scale protot ype built in a labor atory enviro nment ("ugly protot ype).	TRL 4 : Small scale protot ype built in a labor atory enviro nment ("ugly protot ype).	Innovati on Develop ment Ongoing	No	No	No	No	No	No
	Name				Type				Gender			Email		Contact
	Mr. Medha Rajan B N				Faculty				Male			drakshavenig@bmsit.in		9972884530
17	Smart Drip Irrigation using Moisture Sensor	Product Innovation	Technol ogical		Stude nt	TRL 2 : Tech nolog y formu lation . Conc ept and applic ation have been formu lated.	TRL 2 : Tech nolog y formu lation . Conc ept and applic ation have been formu lated.	Innovati on Develop ment Ongoing	No	No	No	No	No	No
	Name				Type				Gender			Email		Contact
	Mr. Mahesh Kadam				Student				Male			dwarakanathgv@bmsit.in		9916155597

18	Low Cost - UV-C Lamp Dry Sterilizer/Sanitizer to disinfect non-wettable items like currencies, groceries, electronic gadgets, bags, N-95 masks etc.,	Product Innovation	Technological		Student	TRL 4 : Small scale prototype built in a laboratory environment ("ugly prototype).	TRL 4 : Small scale prototype built in a laboratory environment ("ugly prototype).	Innovation Development Ongoing	No	No	No	No	No	
Name					Type				Gender			Email		Contact
Dr. C. Kavitha					Faculty				Female			gkavitha21@bmsit.in		9448797728

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 Start-up Grown to a stage of Employment Generation to 10 Numbers or an annual Turnover to Rs. 50 Lakhs during the financial year 2019-20
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1	Mazon Technologies Private Limited	Service Innovation	Technological	2673	Student	Venture with Corporate Identification Number (CIN) Registration	U72900KA2019PTC130690	2019-20	Graduated from the Incubation unit	No	No	Loan/Investment Agency Name		No	No	
												Agency Type				
												Total Loan/Angel Investment/V/C Fund raised by Start-up during the period of pre-incubation/incubation support at your Pre-incubation/incubation or institute financial period 2019-20 (in Rupees)				
												Date of Investment Raised				
Name					DIN number			Type		Gender		Email		Contact		
Mr. Md Rahmat Kahn					08158291			Student		Male		mrkesabs@gmail.com		9618901075		
Immanuel Keith					08494180			Alumni Entrepreneur		Male		mrkesabs@gmail.com		9845007056		
2	HEILEN MEDITECH PRIVATE LIMITED	Service Innovation	Technological	2673	Alumni	Venture with Corporate Identification Number (CIN) Registration	U33100KA2019PTC131027	2019-20	Graduated from the Incubation unit	No	No	No	No	No	No	
	Name					DIN number			Type		Gender		Email		Contact	
	SHASHANK RANEBENNUR NAGARAJ					07503795			Alumni Entrepreneur		Male		shashank.ranebennur@gmail.com		9844282325	
	RAGHU BURLI NARAYANAMURTHY					07649956			Alumni Entrepreneur		Male		shashank.ranebennur@gmail.com		9844282325	
3	TECIDEXA SERVICES PRIVATE LIMITED	Service Innovation	Technological	2673	Student	Venture with Corporate Identification Number (CIN) Registration	U72900KA2018PTC113973	2018-19	Graduated from the Incubation unit	No	No	No	No	No	No	
	Name					DIN number			Type		Gender		Email		Contact	
	Mr. Md Rahmat Kahn					08158291			Student		Male		Tecedexa@gmail.com		9618901075	
	Mr. Rohan Garg					08158292			Student		Male		Tecedexa@gmail.com		7000708083	

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	ISE-AKSHATH SOLUTIONS	Corporate / Industry Association	Collaboration with Startups/Industry Associations/Knowledge Agencies to Promote I&E Activities and/or Internship Opportunities	Pre-incubation,Incubation,Mentoring,Networking,Investment	25	02-01-2019
2	Civil- Medini Pvt. Ltd.	Corporate / Industry Association	Providing (or) Receiving Mentor and Handholding Support to Support I&E Activities	Mentoring,Networking	40	04-01-2019
3	Eco-Paradigm Pvt. Ltd.	Corporate / Industry Association	Providing (or) Receiving Mentor and Handholding Support to Support I&E Activities	Mentoring,Networking	43	15-01-2019
4	TATA ELXSI	Corporate / Industry Association	Collaboration with Startups/Industry Associations/Knowledge Agencies to Promote I&E Activities and/or Internship Opportunities	Pre-incubation,Mentoring,Networking,Investment	11	05-02-2019
5	STEINBEIS INDIA	Corporate / Industry Association	Providing (or) Receiving Mentor and Handholding Support to Support I&E Activities	Pre-incubation,Mentoring,Networking	4	16-01-2019
6	ATS Infotech Pvt. Ltd.	Corporate / Industry Association	Providing (or) Receiving Mentor and Handholding Support to Support I&E Activities	Pre-incubation,Mentoring,Networking	121	27-02-2019
7	Flutech Engineering Pt. Ltd.	Educational Institute	Providing (or) Receiving Mentor and Handholding Support to Support I&E Activities	Pre-incubation,Mentoring,Networking	121	22-02-2019
8	NCS - Nihon Communication (P) Ltd.	Corporate / Industry Association	Providing (or) Receiving Mentor and Handholding Support to Support I&E Activities	Pre-incubation,Mentoring,Networking	10	12-03-2019
9	INDIAN TEKEYS	Corporate / Industry Association	Providing (or) Receiving Mentor and Handholding Support to Support I&E Activities	Mentoring,Networking	35	27-02-2019
10	Federal Mogul Geotz Limited	Corporate / Industry Association	Providing (or) Receiving Mentor and Handholding Support to Support I&E Activities	Mentoring,Networking	30	12-03-2019
11	NITK Virtual Lab	Educational Institute	Providing (or) Receiving Mentor and Handholding Support to Support I&E Activities	Pre-incubation,Mentoring,Networking	102	20-02-2019
12	Kshipra Simulations Pvt. Ltd.	Corporate / Industry Association	Providing (or) Receiving Mentor and Handholding Support to Support I&E Activities	Mentoring,Networking	8	26-02-2019
13	Technilab Instruments	Corporate / Industry Association	Providing (or) Receiving Mentor and Handholding Support to Support I&E Activities	Mentoring,Networking	4	14-01-2019
14	PIA Peenya Industrial Association	Corporate / Industry Association	Providing (or) Receiving Mentor and Handholding Support to Support I&E Activities	Mentoring,Networking	68	05-08-2019
15	ELINTZ Labz	Corporate / Industry Association	Providing (or) Receiving Mentor and Handholding Support to Support I&E Activities	Mentoring,Networking	18	14-05-2019
16	Pushkala Technologies	Corporate / Industry Association	Providing (or) Receiving Mentor and Handholding Support to Support I&E Activities	Mentoring,Networking	36	20-03-2019
17	EKZEN Robotics	Corporate / Industry Association	Providing (or) Receiving Mentor and Handholding Support to Support I&E Activities	Pre-incubation,Mentoring,Networking	14	11-02-2020
18	Prolific systems Pvt. Ltd.	Corporate / Industry Association	Providing (or) Receiving Mentor and Handholding Support to Support I&E Activities	Mentoring,Investment	19	12-03-2019

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 SYSTEM AND A METHOD FOR AUTOMATED COUNTING OF LIVE FISHES WITH INTERNET OF THINGS AND CLOUD	201941030099	National	2019 - 07	Uploaded
2	An alert system for railway track breakage	201941044720	National	2019 - 11	Uploaded
3	A design and a method for automatic per watering and food feeding usng IOT	201941051992	National	2019 - 12	Uploaded
4	AN AUTOMATED WASTE SEGREGATION SYSTEM USING ARTIFICIAL NEURAL NETWORK	201841025096	National	2020 - 03	Uploaded
5	Bone conduction based full face helmet	202041007423	National	2020 - 02	Uploaded

Section 8 > v : List the IPs hold by the Innovation teams/Startups Incubated at the Pre-incubation/incubation Unit of the HEI**No Data Filled!****Section 8 > vi : 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

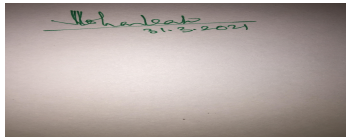
Joint Declaration by the Head of the Institute and Nodal Officer

Dear Sir,

Herewith, myself Dr. Mohan Babu G. N. (Head of Institute) and Dr. Sheela Kathavate (Nodal Officer) jointly declaring on behalf of our institute is that all the information submitted are true and correct to best of our knowledge.

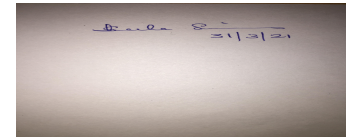
Thank you

The Head of Institute



Dr. Mohan Babu G. N.
Head of the Institution,
Bengaluru, Karnataka

Nodal officer



Dr. Sheela Kathavate
Nodal Officer,
Bengaluru, Karnataka

Responsibility for accuracy and authenticity of data lies with the concerned institution.