

Report

Smart City Solutions for Sustainable Future

2-6 August, 2021

Organized by

Department of Electronics & Telecommunication Engg.,

B. M. S. College of Engineering, Bengaluru-19

Dr. Rajeshwari Hegde
Coordinator,
Professor, Dept. of ETE

Dr. Balachandra K
Organizing Member,
Asst. Prof. Dept. of ETE



Brief Summary:

Day 1 : 2 August 2021 (Monday)

On the first day, the FDP was inaugurated by Mr. Aravind Kamath, Founder & Director, EMC Engineers. Dr. S. Muralidhara, Vice-Principal of BMSCE, presided over the function. The participants were introduced to the concept of smart city, applications, smart city assessment framework, smart city examples, as well as Developing & Qualifying Smart City Products for International Regulations. A session on stress management and a meditation session was also conducted.

Day 2 : 3 August 2021 (Tuesday)

Day 2 included sessions on data analytics for smart cities, Roof computing, Edge computing in smart factories and manufacturing, how India can become AI superpower?, challenges of urban mobility, ICT Intervention and Indian Smart Cities, and operational aspects for the smart city command center use case

Day 3 : 4 August 2021 (Wednesday)

In addition to the technologies for smart energy management, the participants learned about digital twins solutions for smart cities that include modeling of the built environment, mathematical models of electrical and mechanical systems, and sustainable environmental strategies.

Day 4: 5 August 2021 (Thursday)

The role of the Internet of Medical Things (IoMT), market trends, opportunities for healthcare sectors to develop smart cities, smart and connected healthcare for smart cities, and application of digital technologies for sustainable water resource management were discussed.

Day 5 : 6 August 2021 (Friday)

The last day of the FDP started with a discussion involving the types of waste generated in India, the amount of waste generated every day, technologies for waste management, forecasting plastic growth, solutions to reduce it, route optimization, crisis control and mitigation system, and function assessment. As per the norms of ATAL academy an evaluation test was also conducted followed by the valedictory function. DR. Chinmay Hegde, CEO & Managing Director, Astrikos Consulting Pvt. Ltd. a Strategic Consulting Expert organization for Smart Cities, Smart Infrastructure and Security in India was the chief guest and Dr. H S Guruprasad, Dean Student affairs B.M.S.C.E. presided over the function.

About workshop



Cities are engines of growth for the economy of every nation, including India. Nearly 31% of India's current population lives in urban areas and contributes 63% of India's GDP (Census 2011). With increasing urbanization, urban areas are expected to house 40% of India's population and contribute 75% of India's GDP by 2030. This requires comprehensive development of physical, institutional, social and economic infrastructure. All are important in improving the quality of life and attracting people and investors to the city, setting in motion a virtuous cycle of growth and development. Several cities are dealing with the crisis of overpopulation, causing a dearth of resources. Social and economic imbalance among citizens creates problems in a community. As technology grows, the concept of Artificial Intelligence and Internet of Things can be used into planning Smart cities which can gradually tackle several issues in a coexistent manner. Development of Smart Cities is a step in this direction. The objective is to promote cities that provide core infrastructure and give a decent quality of life to its citizens, a clean and sustainable environment through 'Smart' Solutions.

Basically, this FDP caters to the better understanding of topics related to the development of smart cities. This FDP will enable the participants to use their knowledge of Artificial Intelligence, IoT, Sensors, machine learning, and electric circuits to guide the students to develop projects towards building smart city infrastructure

Smart City Solutions for Sustainable Future



Schedule

<i>Time</i>	<i>Description</i>	<i>Speaker(s)</i>
Day 1 – 2 August 2021		
9.45 to 10.00	Inauguration	
10.00 to 11.30	Overview of the event: Smart City Unleashed	Dr. B S Nagabushana
11.30 to 11.45	Tea Break	
11.45 to 13.15	Developing and qualifying Smart City products	Mr. Aravind Kamath
13.15 to 15.00	for International Regulations	
15.00 to 16.30	Stress Management through Meditation- Research Perspective and practical session	Dr. Seema Singh & Dr. Rajeshwari Hegde
Day 2 - 3 August 2021		
10.00 to 11.30	Data Analytics for Smart Cities	Dr. Vinay Hegde
11.30 to 11.45	Tea Break	
11.45 to 13.15	Bringing Cognition in the Edge with focus on IEEE P1931.1 (ROOF Computing), How to make India AI Superpower?	Mr. Nishant Krishna, Mr. Aravind Kamath
13.15 to 15.00	Lunch Break	
15.00 to 16.30	Urban mobility and public transport	Dr. Chinmay Hegde
Day 3 – 4 August. 2021		
10.00 to 11.30	Smart Energy Management	Dr. Santosh R Desai, Dr. Jayanthi N G
11.30 to 11.45	Tea Break	
11.45 to 13.15	Digital Twins	Dr. Sunil Shah
13.15 to 15.00	Lunch Break	
15.00 to 16.30	Sustainable Environmental Strategies	Dr. AH Manjunatha Reddy
Day 4 – 5 August 2021		
10.00 to 11.30	Smart Healthcare: Internet of Medical Things (IoMT)	Ms. Swati Hegde
11.30 to 11.45	Tea Break	
11.45 to 13.15	Smart and connected Healthcare Systems for Smart cities	Mr. Harsha Muroor
13.15 to 15.00	Lunch Break	
15.00 to 16.30	Sustainable Water Resource Management	Mr. Ganesh Shankar
Day 5 – 6 August 2021		
10.00 to 11.30	ICT based Waste Management	Ms. Rajalakshmi G
11.30 to 11.45	Tea Break	
11.45 to 13.15	Integrated Command and Control Centre for Smart Cities	Dr. Chinmay Hegde
13.15 to 15.00	Lunch Break	
15.00 to 16.30	Evaluation test, Feedback, Valedictory	



Resource Persons

Dr. Nagabhushana B S

A Professor of Post Graduate Studies in Electronics at BMS College of Engineering, Bengaluru. In addition to his interest and contribution in pedagogy as Professor in the department of ECE, he takes special interest in carrying out industrial consultancy work



Mr. Aravind Kamath

Cofounder and Director (Technology and Commercials) at "Electromagnetic Compatibility Engineers". He is also an ISO 17025 Assessor for National Accreditation board, Govt of India.



Dr. Seema Singh

Associate Professor in the Department of Humanities & Social Sciences at the Indian Institute of Technology (IIT) Kharagpur, Volunteer, Heartfulness Institute



Dr. Rajeshwari Hegde

Professor in the department of Electronics & Telecommunication Engineering, Heartfulness trainer



Dr. Vinay Hegde

Associate Professor in the Department of Computer Science & Engineering, R V college of Engineering, Bangalore



Mr. Nishant Krishna

Co-founder and CTO, TechMachinery Labs.



Dr. Chinmay Hegde

CEO & Managing Director of Astrikos Consulting Pvt. Ltd. a Strategic Consulting Expert organization for Smart Cities, Smart Infrastructure and Security in India



Dr. Santosh R. Desai

Awarded with Ph.D degree by Indian Institute of Technology Roorkee in the year 2014. He has ongoing/completed project grants worth 55 Lakhs and currently Professor at B.M.S. College of Engg., Bengaluru



Dr. Jayanti N G

PhD-Power Electronics from Dublin Institute of Technology Ireland Dr. Jayanti Ganesh is a senior Power Electronics Researcher in GE Research Bangalore.



Dr. AH Manjunatha Reddy

Associate Professor, Dept. of Biotechnology, R V College of Engineering, Bangalore



Ms. Swati Hegde

Research and Development Engineer Ministry of Information and Broadcasting, Government of India



Mr. Harsha Muroor

The founder and CEO at Teslon Technologies where his team builds Healthcare products under the Carenation Brand



Mr. Ganesh Shankar

The Founder and CEO of FluxGen Technologies and Visiting Faculty at The Center for Continuing Education at The Indian Institute of Science, Bangalore



Ms Rajalakshmi G

Project Manager, SAAHAS, Bangalore





Acknowledgements

We would like to express our deep sense of gratitude to AICTE Training and Learning (ATAL) Academy for sponsoring, providing the opportunity and entrusting us to conduct this FDP.

We would like to thank and appreciate the efforts, support received from all the team members, ATAL Academy.

We are indebted to our beloved Dr. B. V. Ravishankar, Principal, Dr. S. Muralidhara, Vice Principal for their guidance, valuable suggestions and motivation.

We are grateful to Dr. B Kanmani, HoD, Department of ETE whose kind nature, has always inspired us to conduct such events.

We would like to thank all the Resource persons, Participants, and each one of our faculty/staff at B.M.S. College of Engineering for their encouragement and constant support.



List of approved participants

Sl No	Name	Email	Designation	Institute
1.	Mr. Kannadasan B	kannatransgis1984@gmail.com	BSA Crescent institute of Science and Technology	Assistant Professor
2.	Mr. Santoshkumar	santunmath2112@gmail.com	Navodaya institute of technology Raichur	Assistant Professor
3.	Miss Tanvi Sanjeev Katre	tanvi.k@msrit.edu	M S Ramaiah Institute of Technology	Assistant Professor
4.	Dr. Santosh R Desai	santoshdesai2000@gmail.com	BMS College of Engg	Professor
5.	Mr. CH Siva Kumar Kumar	ch_siva_kumar@rediffmail.com	University College of Engineering Osmania University Hyderabad	Assistant Professor
6.	Mr. Sushil Lekhi	lekhi.engg@gmail.com	RGI ROPAR CAMPUS	Assistant Professor
7.	Mr. Shrivatsa Perur	perur35@gmail.com	KLS Gogte Institute of Technology	Assistant Professor
8.	Miss Sanchita Sharad Nawale	Sanchita.nawale30@gmail.com	NMIMS MPSTME MUMBAI	Research Scholar
9.	Mr. Girish Kumar N G	girishkumarng@bit-bangalore.edu.in	Bangalore Institute of Technology	Assistant Professor
10.	Mrs. Harini B	harinib.eee@bmsce.ac.in	BMS college of Engineering	Assistant Professor
11.	Mrs. Padmapriya V	padmapriyav.mca@bmsce.ac.in	B. M. S. College of Engineering	Assistant Professor
12.	Mrs. Nalina	nalina.ise@bmsce.ac.in	B.M.S College of Engineering	Assistant Professor
13.	Mrs. Gayatri Joshi	gayatrijoshi@gmail.com	ACS college of engineering	Assistant Professor
14.	Mrs. Deepthi Rani S S	mailtodeepthirani@gmail.com	Christ Nagar College	Assistant Professor
15.	Dr. R S Geetha	rsgeetha.eee@bmsce.ac.in	B.M.S.C.E.	Professor
16.	Mrs. P.S.Gowra	gowra.tce@bmsce.ac.in	BMS College of Engineering	Associate Professor
17.	Mrs. Veena I Puranikmath	veenaip043@gmail.com	S G Balekundri Institute of Technology Belagavi	Assistant Professor
18.	Mr. Girish K	gk.mca@bmsce.ac.in	BMS College of Engineering, Bangalore	Assistant Professor
19.	Mrs. HEMAVATHI	hemavathi.ece@bmsce.ac.in	B.M.S College of Engineering	Assistant Professor
20.	Mr. Akash Kishorbhai Mehta	akash.mehta.it@gmail.com	Shankersinh Vaghela Babu Institute of Technology	Assistant Professor
21.	Dr. vishwanatha C N	khushivishwanatha@gmail.com	RV College of Engineering	Assistant Professor
22.	Dr. Nayana D. K.	nayanadk08@gmail.com	REVA UNIVERSITY	Associate Professor
23.	Mrs. Kalyani Ramesh Mamdyal	kalyani.mamdyal7@gmail.com	A. G. Patil Institute of Technology	Assistant Professor
24.	Miss Divyaa	diyamia07@gmail.com	Sathyabama institute of Science and Technology	Assistant Professor
25.	Mrs. Varalakshmi. I	lakmu.info@gmail.com	Manakula Vinayagar Institute of Technology	Assistant Professor
26.	Mrs. MohanaPriya.D	mohanapriya181088@gmail.com	Manakula Vinayagar Institute of Technology	Assistant Professor
27.	Mrs. Rajni Taneja	rajnitaneja72@gmail.com	IGDTUW, Delhi	Visiting Professor
28.	Mr. Shrishail Mallinath Birajdar	shreebirajdar@gmail.com	A.G. Patil Institute of Technology Solapur	Assistant Professor
29.	Dr. Sree Ranga Raju M N	mnsrr@rediffmail.com	BIT	Professor

Smart City Solutions for Sustainable Future



30.	Dr. Sheela Kathavate	sheela@bmsit.in	BMS Institute of Technology Management	Associate Professor
31.	Mr. Eesha D	eesha.ece@bmsce.ac.in	BMS College of Engineering	Assistant Professor
32.	Dr. Hina Tyagi	Hina.mrtyagi@gmail.com	IIMT Academy	PGT
33.	Mrs. Antara Roy Choudhury	antararc.cse@bmsce.ac.in	BMS College of Engineering	Assistant Professor
34.	Dr. Manoj Panwar	manojpanwar.iitr@gmail.com	Deenbandhu Chhotu Ram University of Science and Technology, Murthal	Assistant Professor
35.	Mr. Sudhindra K Madi	sudhirmadi@git.edu	Gogte Institute of Technology	Assistant Professor
36.	Mr. Bhakta Charan Pradhan	bhaktadedarha@gmail.com	Lions Vocational Public School	TGT
37.	Dr. Dr. Niraj Singhal	sonia_niraj@yahoo.com	Shobhit Institute of Engineering Technology (Deemed-to-be University)	Professor
38.	Mr. Gudi Saya Reddy	gudisayareddy@gmail.com	Kakatiya Institute of Technology and Science for Women	Associate Professor
39.	Mrs. Shivani Chaudhari	shivani15.piads@gmail.com	Priyadarshini institute of Architecture and Design Studies	Assistant Professor
40.	Mr. ARPIT	arpit.0121@gmail.com	SCRIET, CCS UNIVERSITY	COMPUTER PROGRAMMER
41.	Mr. RAJEEV BILAGI	rajeev@acharya.ac.in	Acharya Institute of Technology	Assistant Professor
42.	Mr. Anand Kumar Singh	anand.singh@ddn.upes.ac.in	UPES Dehradun	Assistant Professor
43.	Dr. Mahesh kaluti	maheshkaluti@pesce.ac.in	P.E.S College of Engineering	Associate Professor
44.	Miss Preethi K Mane	pkm.intn@bmsce.ac.in	B M S College of Engineering	Associate Professor
45.	Mr. Thyagaraj K J	thyagarajkj246@gmail.com	Sri Venkateshwara College of Engineering, Bengaluru	Assistant Professor
46.	Dr. Balachandra Kumaraswamy	balachandrak.tce@bmsce.ac.in	BMS College of Engineering	Assistant Professor
47.	Mr HarishKumar S	s.harishgowda592@gmail.com	Mysore school of architecture university layout Mysore	Assistant Professor
48.	Mrs. G.MAMATHA	gmamatha_cse@cbit.ac.in	Chaitanya Bharathi institute of technology	Assistant Professor
49.	Dr. NAGENDRA H	nagendrah@pdaengg.com	PDA College of Engineering	Associate Professor
50.	Mrs. Rutuja Ajinkya Deshmukh Jagtap	rutujad11@gmail.com	Symbiosis Skills and Professional University	Associate Professor
51.	Mrs. Manisha Ghansham Prachande-Wagh	lamanisha.p@gmail.com	Symbiosis Skills and Professional University	Assistant Professor
52.	Dr. KAYALVIZHI Shanmughanathan	saikayal68@gmail.com	Easwari Engineering College	Professor
53.	Dr. Ajj Dildar Sayyad	sayyad_ajij@yahoo.com	Marathwada Institute of Technology, Aurangabad	Associate Professor
54.	Dr. Vasantha lakshmi M	vasantha.tce@bmsce.ac.in	BMS College of Engineering	Assistant Professor
55.	Mrs. Unnati Shah	unnati.shah@paruluniversity.ac.in	Parul Polytechnic Institute, P University	Assistant Professor
56.	Miss shanky goyal	shanky.it@cg.cgc.edu.in	Chandigarh Engineering College	Assistant Professor
57.	Mr. KUMAR	kumard.intn@bmsce.ac.in	B M S College of engineering	Assistant Professor
58.	Dr. BEENA ULLALA MATA	bnb.ml@bmsce.ac.in	BMS College of Engineering	Associate Professor

Smart City Solutions for Sustainable Future



59.	Mrs. B S Mahalakshmi	bsmahalakshmi.ise@bmsce.ac.in	BMS College of Engineering	Assistant Professor
60.	Mrs. PUSHPAVATHI. K. P	pushpakp.tce@bmsce.ac.in	BMS College of Engineering	Assistant Professor
61.	Dr. S. UMA	uma.mca@bmsce.ac.in	BMS College of Engineering	Associate Professor
62.	Mr. Pritam Arun Mali	pam_civil@adcet.in	Annasaheb Dange college of engineering & Technology, A	Assistant Professor
63.	Mr. Khalid Alfatmi	alfatmi.khalid@gmail.com	SVKM's Institute of Technolo	Assistant Professor
64.	Mrs. Rituparna Paul	paul.rituparna1992@gmail.com	National Institute of Technol	PhD Student
65.	Mrs. Anita Bhati	anitabhathi@mpsjaipur.com	MPS	TGT
66.	Dr. PRIYARANJAN MARAL	priyaranjanmrl@gmail.com	University of Allahabad	PostDoc Fellow
67.	Mrs. MANJULA A R	manjulatech@gmail.com	Bangalore Institute of Techno	Assistant Professor
68.	Mr. chetan Anand N	chetananandn@bit-bangalore.edu.in	Bangalore Institute of Techno	Associate Professor
69.	Mr. Suryakant Hegde	suryakant@svpkumta.in	Shree Vidyadhiraj Polytechni	Selection Grade Lec
70.	Mr. Dayananda J Shet	djshetkumta@gmail.com	Shree Vidyadhiraj Polytechni Kumta	Selection Grade lect
71.	Mr. Manish Panchal	hellopanchal@gmail.com	Shri G S Institute of Technolo and Science Indore (MP)	Associate Professor
72.	Mr. Vishal Sharad Hingmir	vs.hingmire@gmail.com	Arvind Gavali College of Engineering	Assistant Professor
73.	Mr. Shridhar G Bhat	shridharbhathegde@gmail.com	Shree Vidyadhiraj Polytechni Kumta	Selection Grade Lec
74.	Mr. ASHOK N S	ashok_ns@rediffmail.com	Shree Vidyadhiraj Polytechni Kumta	Lecturer
75.	Mr. Vinod R Harikanth	vinod.harikanth17@gmail.com	Shree Vidyadhiraj Polytechni	Lecturer
76.	Mr. Girish P Prabhu	girishprabhu2012@gmail.com	Shree Vidyadhiraj Polytechni Kumta	Selection Grade Lec
77.	Mr. GOURISH B. N	gourishbn@gmail.com	Shree Vidyadhiraj Polytechni	Lecturer
78.	Mr. Kaushal D Jani	stuns@rediffmail.com	P S Hirapara Mahila College, Jetpur	Assistant Professor
79.	Mrs. Bhagyashree	bhagya.biradar402@gmail.com	SJPN Trust Polytechnic Nidas	Professor
80.	Mrs. Meenakshi L Rathod	meenakshi.lr@dr-ait.org	Dr. Ambedkar Institute of Technology	Assistant Professor
81.	Mrs. Mandhare Rajani Mahendra	rajanimandhare80@gmail.com	Arvind Gavali College of Engineering, Satara	Assistant Professor
82.	Mr. Saif Ali	saifali2526@gmail.com	Na	Na
83.	Mrs. V.Reena Joshi Vince	reenajosh@gmail.com	Jeppiaar Engineering college	Assistant Professor
84.	Miss Pooja Bora	poojabora39@gmail.com	Jorhat Engineering College	Assistant Professor
85.	Miss Harshitha kv	harshu.kv92@gmail.com	ADITYA ACADEMY OF ARCHITECTURE AND DESIGN	Assistant Professor
86.	Dr. M.Rajeswari	m.rajeswari@gmail.com	Bangalore Institute of Techno	Associate Professor
87.	Mrs. Punya Prabha V	punya.v@msrit.edu	Ramaiah Institute of Technol	Assistant Professor
88.	Mr. Puneeth kumar	puneeth1038@gmail.com	GNDEC BIDAR	Assistant Professor
89.	Dr. Padma Yenuga	padmayenuga@gmail.com	P V P Siddhartha Institute of Technology	Assistant Professor
90.	Mrs. Sindhu K	ksindhu.ise@bmsce.ac.in	BMSCE	Assistant Professor



91.	Dr. Lalit Saraswat	lalitfcs@rkgit.edu.in	RAJ KUMAR GOEL INSTITUTE TECHNOLOGY GHAZIABAD	Professor
92.	Mr. H S VISHWANATHA	hs_vish@yahoo.co.in	MEI Polytechnic	Professor
93.	Mr. M GOPAL	mgmeip257@gmail.com	MEI POLYTECHNIC	Associate Professor
94.	Miss VEMULAPALLI RASHMI	rasvem12@gmail.com	Prasad V. Potluri Siddhartha Institute of Technology	Assistant Professor
95.	Mrs. Akshatha Rao	akshatha.rao@manipal.edu	Manipal School of Architecture and Planning	Assistant Professor
96.	Mrs. Sarah Nireekshana	sarahnireekshana.dtdp@jnafau.ac.in	JNAFAU	Assistant Professor
97.	Mrs. Sirisha.J	sirisha.j@pvpsiddhartha.ac.in	PVPSIT,Vijayawada	Assistant Professor
98.	Mrs. Roshan Shetty	roshan.shetty@manipal.edu	Manipal School of Architecture and Planning	Associate Professor
99.	Mr. Piyush Satish Kankal	piyushkankal@orchidengg.ac.in	N K Orchid College of Engineering & Technology	Assistant Professor
100	Mr. P. SATHYANATHAN	sathyaeee88@gmail.com	Vel Tech Rangarajan Dr. Sagunthala R&D Institute of Science and Technology	Assistant Professor
101	Mrs. vijayalakshmi B.K	lakshmiviji.arch@gmail.com	Gopalan School of Architecture and Planning	Assistant Professor
102	Dr. shivaputra	putrauvce@gmail.com	Dr. Ambedkar Institute of Technology1-	Assistant Professor
103	Mrs. Lulwa Khaleel	lulwa.khaleel@manipal.edu	MSAP -MIT	Assistant Professor
104	Dr. HIMANI GOYAL SHARMA	himanigoyalsharma@gmail.com	CU	Professor
105	Miss Pooja Bhatia	poojabhatia.22222@gmail.com	SSIPMT	Assistant Professor
106	Dr. Bhupesh Rawat	bhr222@gmail.com	Grahpic Era Hill University	Associate Professor
107	Mr. JAGTAP DAYANAND BAJIRAO	jagtap.dayanand@gmail.com	Arvind Gavali College of Engineering Satara	Assistant Professor
108	Dr. Dr.Suma.T	tsuma.cs@gmail.com	SVCE	Associate Professor
109	Mr. Shahnwaz Ashraf Ansari	shahnwazashraf@gmail.com	Madhupur Polytechnic	Assistant Professor
110	Mr. Chaitanya Vijayakumar Mahamuni	chaitanyamahamuni91@gmail.com	Amity University Maharashtra	Assistant Professor
111	Mr. Prashanth Kambli	prash.kambli@gmail.com	M S Ramaiah Institute of Technology	Assistant Professor
112	Dr. Ravi Shankar Mishra	ravims3@gmail.com	Sagar Institute of Science & Technology(SISTec), Bhopal	Professor
113	Dr. Nandhini Vineeth	nandhiniv.cse@bmsce.ac.in	B.M.S. COLLEGE OF ENGINEERING	Assistant Professor
114	Mrs. Sheetal V A	sheetalvhavle@gmail.com	B.M.S. College of Engineering	Assistant Professor
115	Dr. umadevi H	umadevi.ait@gmail.com	Dr Ambedkar Institute Of Technology	Professor
116	Mr. Stanly Wilson Louis	swlouis@velammal.edu.in	Velammal engineering college	Assistant Professor
117	Miss AISHWARYA M BHAT	aishwaryambhat@mite.ac.in	Mangalore Institute of Technology & Engineering	Assistant Professor
118	Mrs. Shilpa K C	shilpa.kc@dr-ait.org	Dr.Ambedkar Institute of Technology	Assistant Professor
119	Mrs. Anitha H M	anithahm.ise@bmsce.ac.in	BMS College of Engineering	Assistant Professor

Smart City Solutions for Sustainable Future



120	Mrs. Asha G R	asha.cse@bmsce.ac.in	BMS College of Engineering	Assistant Professor
121	Mrs. Duba Sriveni	sriveni.dubas@gmail.com	Keshav Memorial institute of technology	Assistant Professor
122	Miss DEEPTHIKA K	deepthi.karuppusamy@gmail.com	Dr.N.G.P Institute of Technol	Assistant Professor
123	Miss Savithadevi	csesavi@gmail.com	Dr.N.G.P.Institute of technology,coimbatore	Assistant Professor
124	Dr. Shubha Rao V	shubha.ise@bmsce.ac.in	BMS College of Engineering	Associate Professor
125	Mrs. VAISHALI MALIK	vaishali.malik@miet.ac.in	Meerut Institute of Engineering Technology(MIET), Meerut.	Assistant Professor
126	Mr. GUMALAPURAM GOP	ggopal_eee@mgit.ac.in	Mahatma Gandhi Institute of Technology	Assistant Professor
127	Mr. Ravi Shankar Mishra	10737642@cbsedigitaledu.in	Sunbeam Suncity (School & Hostel)	Teacher
128	Miss Samridhi	samridhi.e9372@cumail.in	University Institute of Architecture	Associate Professor
129	Dr. RAJESHKANNA R	drrajeshkanna@hindusthan.net	Hindusthan College of Engineering and Technology	Associate Professor
130	Mr. DIWAKAR P S	diwakar.eee@hicet.ac.in	Hindusthan College of Engineering and Technology	Assistant Professor
131	Mr. KIRAN A SHANBHAG	kaskumta@gmail.com	SHREE VIDYADHIRAJ POLYTECHNIC KUMTA	Senior Scale Lecturer
132	Mr. Prathmesh Vilas Patil	prathmeshpatil5551@gmail.com	Alamuri Ratnamala Institute engineering & Technology	Assistant Professor
133	Mr. M.KARTHIKEYAN	karthikmurugan1996@gmail.com	GALGOTIAS UNIVERSITY	Assistant Professor
134	Mrs. k.Priyanka	priyabhatsastry92@gmail.com	Geethanjali college of engineering and technology	Assistant Professor
135	Dr. N Srinivasa Rao	nsr.tce@bmsce.ac.in	BMS College of Engineering	Associate Professor
136	Mrs. SAPNA MAURYA	10696502@cbsedigitaledu.in	SRVS SIKANDERPUR CHAKIA CHANDAULI	Academic Head
137	Dr. P Jayarekha	jayarekha.ise@bmsce.ac.in	BMS Colle of Enginerring	Professor
138	Dr. Shambhavi B R	shambhavibr.ise@bmsce.ac.in	BMS College of Engineering	Associate Professor
139	Dr. SUSITHRA M	susithra@smvec.ac.in	SRI MANAKULA VINAYAGAR ENGINEERING COLLEGE	Associate Professor
140	Mr. HARAPANAHALLI HAR	harsha.harapanahalli@gmail.com	174-Government Polytechnic Kudligi	Lecturer
141	Mrs. SHRUTHI H C	shruthihc9@gmail.com	173-Government Polytechnic Harapanahalli	Lecturer
142	Mr. G S Raghavendra	raghavendragunturi@gmail.com	RVR & JC College of Engineering	Assistant Professor
143	Dr. JYOTHI S NAYAK	jyothinayak.cse@bmsce.ac.in	B.M.S. College of Engineering	Professor
144	Dr. Nagarathna N	nagarathna.cse@bmsce.ac.in	B.M.S. College of Engineering	Professor
145	Dr. SHILPA SHARMA	Shilpa@bitraipur.ac.in	Bhilai Institute of Technology Raipur	Assistant Professor
146	Mr. Bharatkumar V. Tank	bharat.tank@paruluniversity.ac.in	PARUL INSTITUTE OF TECHNOLOGY	Assistant Professor
147	Mr. RIKSHIT KUMAR	rikshit.jan1990@gmail.com	GALGOTIAS UNIVERSITY	Assistant Professor




Smart City Solutions for Sustainable Future



148	Dr. Jayanthi K Murthy	jayanthi.ece@bmsce.ac.in	BMS College of Engineering	Associate Professor
149	Mr. Qazi Junaid Ashraf	qazijunaidashraf@gmail.com	University of Kashmir	Assistant Professor
150	Mr. Raju Anandrao Bondre	rajubondre15@gmail.com	Guru Nanak Institute of Technology	Assistant Professor
151	Miss NIDHI DUBEY	2000520285005@ietlucknow.ac.in	IET lucknow	Student
152	Mr. Bijendra singh	gusainbijendra@gmail.com	SGRR University	Assistant Professor
153	Mr. HarishKumar S	harishkumar.s@msa.edu.in	Mysore school of architecture Mysore	Assistant Professor
154				



Screenshots Inauguration



Department of Electronics & Telecommunication Engineering
B.M.S. COLLEGE OF ENGINEERING, BENGALURU-19
(Autonomous College under VTU)

Cordially invites you for the **ONLINE Inaugural** function of
AICTE Training and Learning (ATAL) Academy
Sponsored FDP on
Smart City Solutions for Sustainable Future
(2 - 6 August, 2021)
Date: 2 August 2021 (Monday) Time: 9.30 AM

CHIEF GUEST
Mr. Aravind Kamath
Founder & Director, EMC Engineers

PRESIDED BY
Dr. S. Muralidhara
Vice-Principal, B.M.S.C.E.

Dr. Balachandra K
Organizing member

Dr. Rajeshwari Hegde
Coordinator

Dr. B Kanmani
HOD

Schedule

9:30 am – 9:35 am	Welcome Address Dr. B Kanmani Professor & Head, Dept. of ETE
9:35 am – 9:40 am	Brief up about the Workshop Dr. Rajeshwari Hegde Coordinator
9:40 am – 9:45 am	Address by Chief Guest Mr. Aravind Kamath Founder & Director, EMC Engineers
9:45 am – 9:50 am	Presidential Address Dr. S. Muralidhara Vice-Principal, B.M.S.C.E.
9:50 am – 9:55 am	Vote of Thanks Dr. Balachandra K Organizing Member

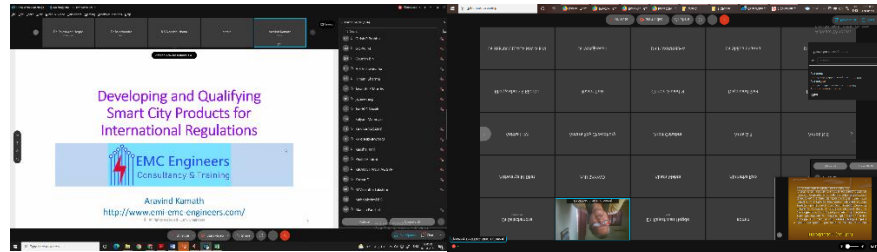
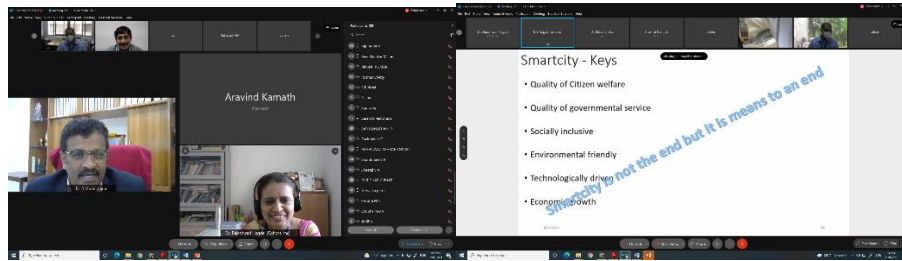
Link to join:
<https://bsncentre.webex.com/bsncentre/j.php?MTID=m8eebd3ef8c8f4bfad76d0d6c721d1969>

Meeting number: 170 981 5023
Password: BSNTCE2021

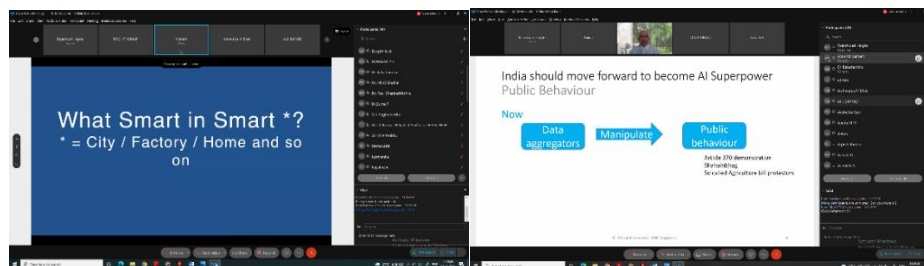
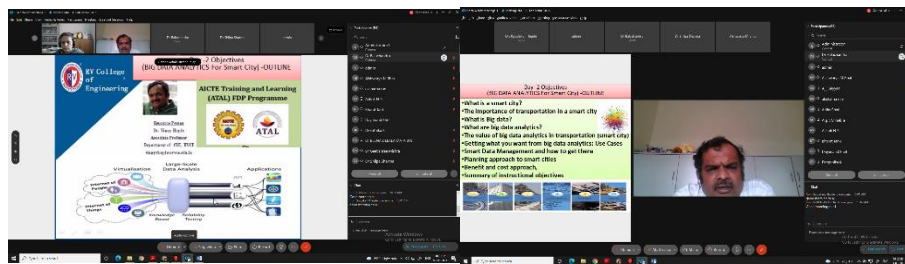
Smart City Solutions for Sustainable Future



Sessions on Day 1:



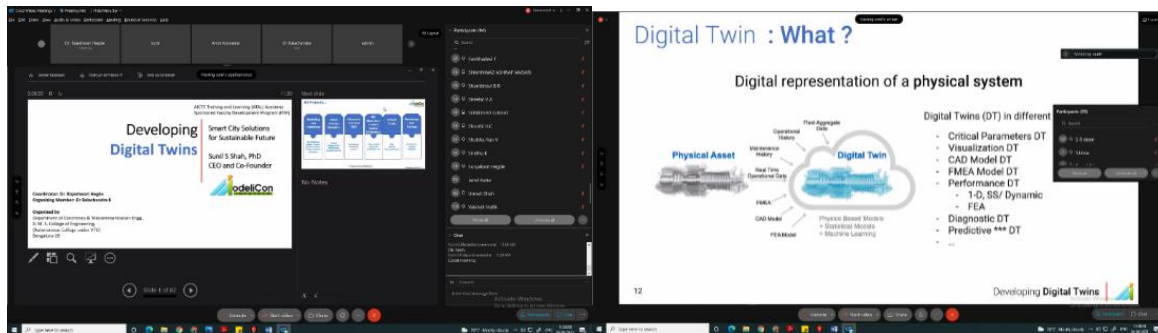
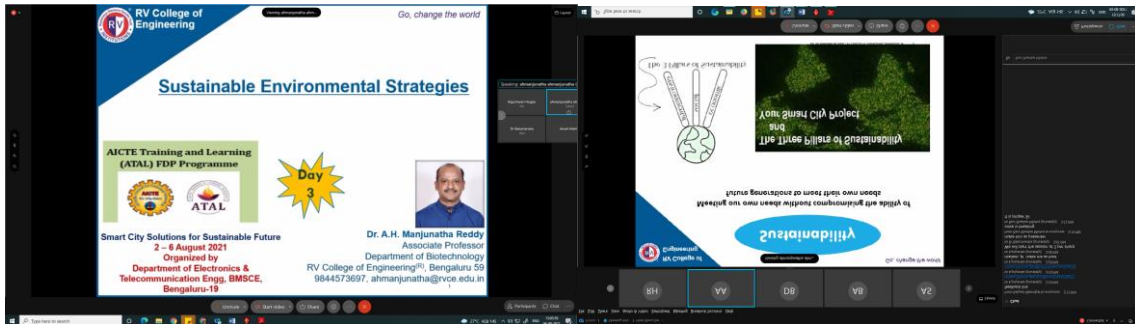
Sessions on Day 2:



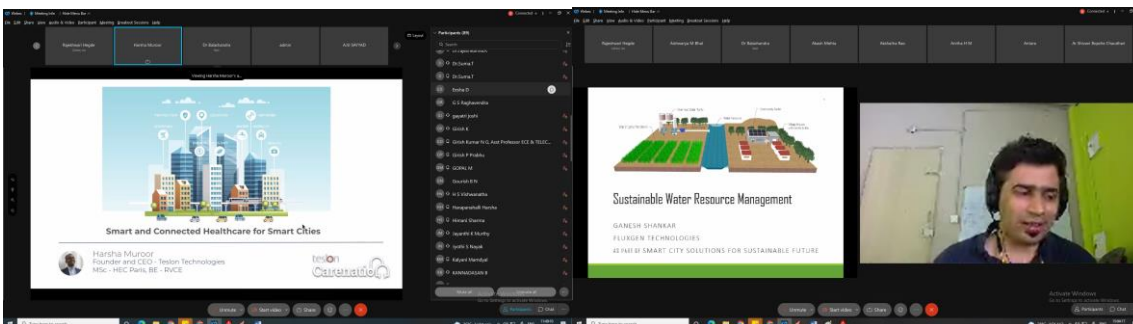
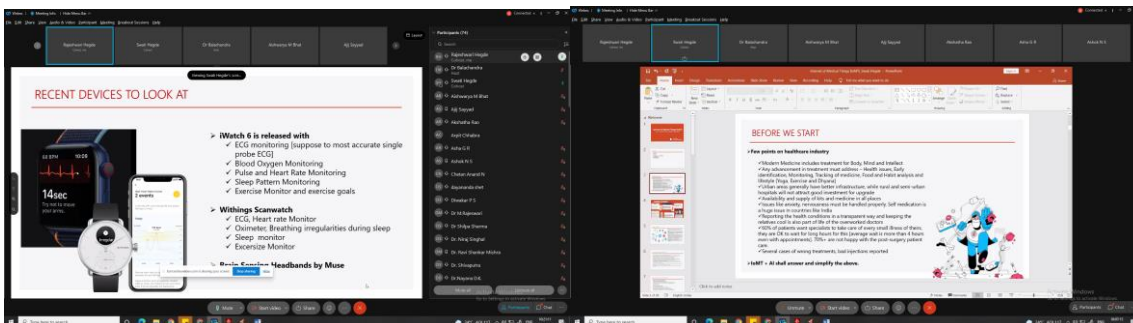
Smart City Solutions for Sustainable Future



Sessions on Day 3:



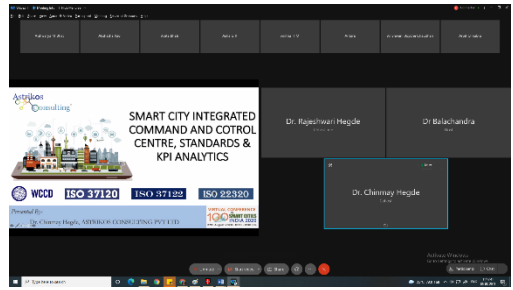
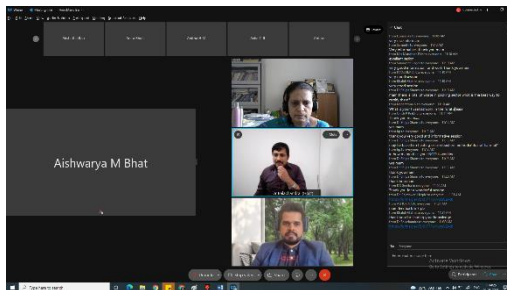
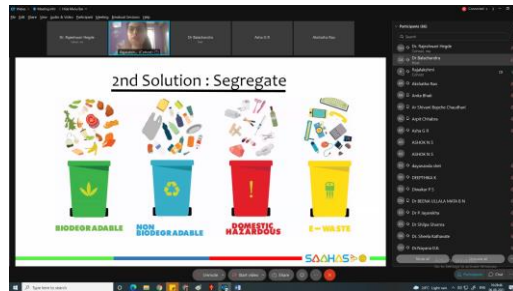
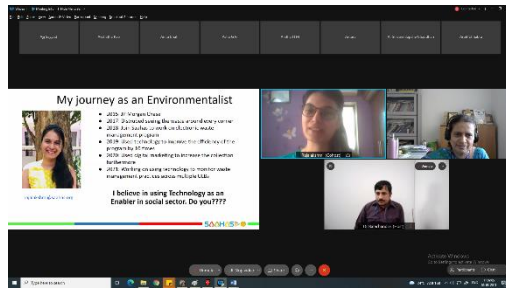
Sessions on Day 4:



Smart City Solutions for Sustainable Future



Sessions on Day 5:





Department of Electronics & Telecommunication Engineering

B.M.S. COLLEGE OF ENGINEERING, BENGALURU-19
(Autonomous College under VTU)

Cordially invites you for the **ONLINE Valedictory** function of

AICTE Training and Learning (ATAL) Academy

Sponsored FDP on

Smart City Solutions for Sustainable Future

(2 – 6 August, 2021)

CHIEF GUEST

Dr. Chinmay Hegde

CEO & Managing Director, Astrikos Consulting Pvt. Ltd.

PRESIDED BY

Dr. H S Guruprasad

Dean Student Affairs, B.M.S.C.E.

Schedule

Date: 6 August 2021 (Friday) Time: 3.30 PM

Welcome Address Dr. B Kanmani Professor & Head, Dept. of ETE	3 min
Brief up about the Workshop Dr. Rajeshwari Hegde Coordinator	4 min
Address by Chief Guest Dr. Chinmay Hegde CEO & Managing Director, Astrikos Consulting Pvt. Ltd	5 min
Presidential Address Dr. H. S. Guruprasad Dean Student Affairs, B.M.S.C.E.	5 min
Feedback about the FDP from the participants	10 min
Vote of Thanks Dr. Balachandra K Organizing Member	3 min

Link to join:

<https://bsncentre.webex.com/bsncentre/j.php?MTID=m8eebd3ef8c8f4bfad76d0d6c721d1969Mee>

Meeting number: 170 981 5023

Password: BSNTCE2021

Dr. Balachandra K

Organizing member

Dr. Rajeshwari Hegde

Coordinator

Dr. B Kanmani

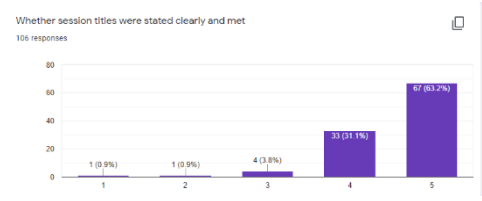
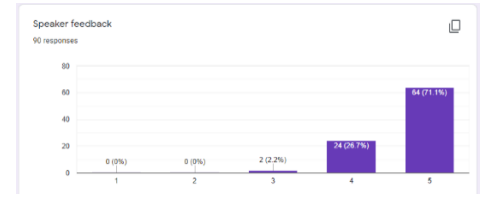
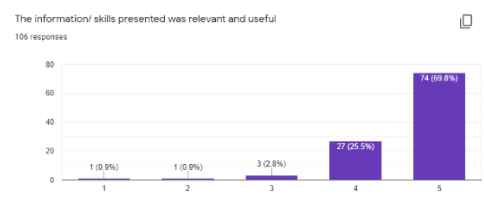
HOD



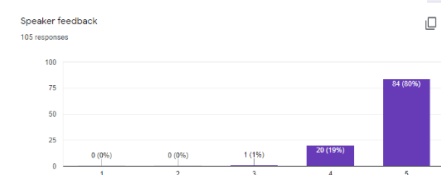
Feedbacks for the sessions

Mr. Aravind Kamath

Feedback - ATAL FDP - Session 2 - Mr Aravind Kamath



Feedback - ATAL FDP - Urban Mobility and Public Transport - Dr. Chinmay I





Details of bills/expenses incurred under miscellaneous charges towards the conduction of ATAL FDP on
Smart City Solutions for Sustainable Future
(2-6 August, 2021)

Sl No.	Date	Name	Particulars	Amount in INR
1	16.08.2021	Amazon	SanDisk Ultra Dual Drive Go Type C Pendrive for Mobile 256GB, 5Y - SDDDC3-256G-I35	2,729.00
2	16.08.2021	Amazon	SanDisk Ultra Dual Drive Go Type C PenDrive for Mobile, Green, 128GB, 5Y	1,639.00
3	16.08.2021	Amazon	ZEBRONICS Zeb-Ultimate Plus USB Powered high-Resolution Web Camera with 5P Lens and Full HD 1920x1080, Built-in mic, Night Vision with Control pod for Brightness and mounting Clip on Design with 1.5	1,920.00
4	16.08.2021	Amazon	Logitech Media Combo MK200 Full-Size Keyboard and High-Definition Optical Mouse	1,099.00
5	16.08.2021	Amazon	boAt Bassheads 900 On Ear Wired Headphones(Carbon Black)	785.00
6	16.08.2021	Amazon	HP v236w 64GB USB 2.0 Pen Drive	945.00
7	16.08.2021	Amazon	SanDisk Ultra Dual Drive Go Type C Pendrive for Mobile 32GB, 5Y - SDDDC3-032G-I35	699.00
8	16.08.2021	Amazon	HP FD236W 32GB USB 2.0 Pen Drive (Gray)	425.00
Total				10,241/-

Dr. Rajeshwari Hegde
 Coordinator – ATAL FDP

Smart City Solutions for Sustainable Future



List of beneficiary details and the amount to be remitted under different heads towards the conduction of ATAL FDP on Smart City Solutions for Sustainable Future (2-6 August 2021)

SI No	Item (Category)	Name of the beneficiary (as per bank records)	Account Number	Account Type	Bank Name	Branch	IFSC	Amount in INR
INTERNAL								
1	Honorarium (Coordinator)	RAJESHWARI HEGDE	20274181541	SB	INDIAN BANK	HANUMNATHNAGAR, BENGALURU	IDIB000B607	10,000
2	Honorarium to Computer operator	SHAMALA N BHAT	50142431284	SB	INDIAN BANK	HANUMNATHNAGAR, BENGALURU	IDIB000B607	2,000
3	Honorarium (Lab Attendant)	NAGARATHANA G	50044452386	SB	INDIAN BANK	HANUMNATHNAGAR, BENGALURU	IDIB000B607	1,000
4	Miscellaneous charges	RAJESHWARI HEGDE	20274181541	SB	INDIAN BANK	HANUMNATHNAGAR, BENGALURU	IDIB000B607	10,000
5	Honorarium (Resource Person)	B S NAGABHUSHANA	50100363322	SB	INDIAN BANK	HANUMNATHNAGAR, BENGALURU	IDIB000B607	5,000
6	Honorarium (Resource Person)	SANTOSH R. DESAI	20274186527	SB	INDIAN BANK	HANUMNATHNAGAR, BENGALURU	IDIB000B607	5,000
EXTERNAL EXPERTS								
1	Honorarium (Resource Person)	HARSHA MUROOR	00091610105965	SB	HDFC	KASTURBA ROAD, BANGALORE	HDFC0000009	5,000
2	Honorarium (Resource Person)	ARAVIND MOHANDAS KAMATH	10461052541	SB	SBI	GOTTIGERE	SBIN0017607	10,000
3	Honorarium (Resource Person)	SEEMA SINGH	31138968408	SB	SBI	KHARAGPUR	SBIN0000202	5,000
4	Honorarium (Resource Person)	VINAY V HEGDE	136010029818	SB	KOTAK MAHINDRA BANK	RVCE BRANCH, MYSORE ROAD	KKBK000 8053	5,000
5	Honorarium (Resource Person)	CHINMAYA HEGDE	150025041979	SB	INDUSIND BANK	BASAVANAGUDI	INDB0000039	10,000
6	Honorarium (Resource Person)	SUNIL SHIRISH SHAH	00771050025605	SB	HDFC BANK	ITPL	HDFC0000077	5,000
7	Honorarium (Resource Person)	AH MANJUNATHA REDDY	136010066153	SB	KOTAK MAHINDRA BANK	RVCE BRANCH, MYSORE ROAD	KKBK000 8053	5,000
8	Honorarium (Resource Person)	GANESH HASSAN SHANKAR	029701005981	SB	ICICI	BTM LAYOUT, 2 ND STAGE BRANCH	ICIC0000297	5,000
9	Honorarium (Resource Person)	SWATI GANAPATI HEGDE	5192500102300401	SB	KARNATAKA BANK	BOGADI, MYSORE	KARB0000519	5,000
10	Honorarium (Resource Person)	RAJALAKSHMI GOPALAKRISHNAN	50100112052184	SB	HDFC	MALAD WEST, MUMBAI	HDFC0000411	5,000
TOTAL								93,000

Dr. Rajeshwari Hegde
Coordinator – ATAL FDP



Sanction letter

Annexure-I



All India Council for Technical Education

(A Statutory body under Ministry of HRD, Govt. of India)

Nelson Mandela Marg, Vasant Kunj, New Delhi-110070 Website: www.aicte-india.org



AICTE Training and Learning (ATAL) Academy, (Online FDP)

F. No. 2-23/AICTE/ATAL-HQ/2021-22/1893

Date: 27th July, 2021

To

The Principal,
BMS College of Engineering
P.O. Box No.: 1908 Bull Temple Road,
Basavanagudi,
BENGALURU - 560019

Sub: Release of a sum of Rs. 93,000/- for AICTE Training and Learning (ATAL) Academy Online FDP.

Sir,

This is to convey the sanction of the Council for payment of Rs. 93,000 /- (Rupees Ninety - Three Thousand Only) for conducting of online AICTE Training and Learning (ATAL) Academy FDP (SMART CITIES) to BMS COLLEGE OF ENGINEERING, BENGALURU, under AICTE Training And Learning (ATAL) Academy.

This fund is being released in conformity with the terms & conditions as well as norms of the scheme as already communicated, and also being communicated in this letter.

The instructions/guidelines to be followed by University/Institution

I. Release of funds and maintenance of accounts

- a. The University/College/Institute shall maintain proper accounts of the expenditure out of the grants, which shall be utilized only on approved items of expenditure.
- b. The cost for conducting per programme will be Rs. 93,000/- as per detail given as under:

1.	Honorarium to Coordinator	Rs. 10,000/-
2.	Honorarium for Computer Operator	Rs. 2,000/-
3.	Honorarium for experts (Rs.5000 per session for total 14 session)	Rs. 70,000/-
4.	Provision for payment to Lab Attendant	Rs. 1,000/-
5.	Miscellaneous charges (petty expenses not covered above)	Rs. 10,000/-
	TOTAL	Rs. 93,000/-

Programmes having permission to change amounts under different heads with overall ceiling of Rs. 0.93 lakh being intact.

- c. The grant is subject to the adjustment on the basis of Utilization Certificate in the prescribed proforma to be submitted by the University/College/Institution. Further, the accounts of the institute will be open for test check by the Council or Controller & Auditor General of India or any other officer designated by them.

II. Disbursement of funds to institutions

The full amount of the grant sanctioned will be released as an advance to the University/Institute through electronic transfer on the account of the University/Institute after submission of mandate form

III. Conduct of test and issuance of certificate

- A test shall be conducted by coordinator at the end of the program.

The certificates shall be issued to those participants who have been approved by the coordinator, attended the program with minimum 80% of attendance and scored minimum 60% marks in the test.

Regional Office
South Western Regional Office
All India Council for Technical Education

P.T.O.....



**B.M.S COLLEGE OF ENGINEERING, BANGALORE – 560 019
(AUTONOMOUS COLLEGE UNDER VTU)
Bull Temple Road, Bengaluru- 560019, Karnataka**

UTILIZATION CERTIFICATE FOR THE FINANCIAL YEAR 2021-2022

Name of the Scheme under which Grant was sanctioned **ATAL**

(to be submitted separately for each sanction order)

AICTE File No. : 2-23/AICTE/ATAL-HQ/2021-22/1893
Name of Co-ordinator : Dr. Rajeshwari Hegde
Dates of the Programme : 2-6 August 2021
Title of the ATAL Programme : Smart City Solutions for Sustainable Future

Sl. No.	AICTE Sanction Order/Letter No. & Date under which grant was sanctioned	Amount (Rs.)	
1.	2-23/AICTE/ATAL-HQ/2021-22/1893 dated 27 July 2021. AICTE Training and Learning (ATAL) Academy programme Online FDP (SMART CITIES)	93,000/- -	Certified that out of the grant-in-aid of Rs. 93,000/- (Ninet thousand only) sanctioned by the AICTE during the financia 2021-2022 in favour of (B. M. S. College of Engineering) as p mentioned in the margin, Rs. 0/- On account of unspent bal previous year, Rs.93,000/- on account of other income / receipts of has been utilized for the purpose for which it was sanctioned balance of Rs. 0/- remained unutilized at the end of the year.

Certified that I have satisfied myself that the conditions on which the grant-in-aid was sanc have been duly fulfilled and that I have exercised the following checks to see that the mon actually utilized for the purpose for which it was sanctioned.

Kinds of checks exercised: -

- Audited Annual Accounts of the Institute
- Receipt and Payment account
- Periodical Progress Reports.

(1) Name, Signature & Address of the Claimant/Awardee/Coordinator with seal:
 Dr. Rajeshwari Hegde
 Professor, Dept. of ETE, B.M.S.C.E.

(2) Signature of Chartered Accountant:
 Name of Chartered Accountant:
 Membership No.:
 Rubberstamp:
 Full Address:
 Date:



(3) Signature of Head of the Institute:
 B V RAVISHANKAR, Principal
 Rubber stamp:
 Full Address:
 Date:

[Handwritten Signature]
Principal
 B.M.S. College of Engineering
 Bangalore-560 019

(4) Signature of the Finance Officer/Accounts Officer:
 Name of the Finance Officer/Accounts Officer:
 (If it is Govt./Govt. Aided Institute)
 BMS College of Engineering
 Bangalore - 560 019

[Handwritten Signature]
 BMS College of Engineering
 Bangalore - 560 019



AICTE Training and Learning (ATAL) Academy Programme

STATEMENT OF EXPENDITURE

AICTE File No.(As in Sanction Order/Letter) : 2-23/AICTE/ATAL-HQ/2021-22/1893

Title of the Programme: Smart City Solutions for Sustainable Future

Name of the Coordinator: Dr. Rajeshwari Hegde

<u>Sanction No. and Date</u>	<u>Grant Sanctioned</u>	<u>Details of expenditure Incurred Itemwise</u>	<u>Amount Rs. (in each head)</u>	<u>No. of Participants</u>	<u>Duration of the Programme (with dates)</u>
2-23/AICTE/ATAL-HQ/2021-22/1893 dated 27 July 2021. AICTE Training and Learning (ATAL) Academy programme Online FDP (SMART CITIES)	93,000/-	1. Honorarium to Coordinator Rs.2000/- per day × 5days	10,000/-	153 (approved)	2 nd -6 th August 2021 (five days)
		2. Honorarium to Computer operator	2,000/-		
		3. Honorarium for experts (Rs.5000 per session for total 14 session).	70,000/-		
		4. Payment to Lab Attendant	1,000/-		
		5. Miscellaneous charges	10,000/-		
		6. Total	93,000/-		
		Grant Received	93,000/-		
		Balance to be Received	Nil		

(1) Dr. Rajeshwari Hegde
Name and Signature of Coordinator
with Seal

(2) Dr. B V Ravishankar
Name and Signature of
Head of Institution with Seal
Bangalore-560 019

(3) Signature (with Seal) of the Finance Officer/
Auditor/Accounts Officer
(If it is Govt./Govt. Aided Institute)
Bangalore - 560 019

(4) Signature of Chartered Accountant:
Name of Chartered Accountant:
Membership No. Bangalore
Rubber stamp: No. 225464
Full Address:
Date:



Youtube video links for the sessions

Application No./Course Code	Thrust Area_Name	Particulars	youtube Video Link (Paste link against the respective)	Host Institute	Starting Date of FDP	Closing date of Fdp	Coordinator's Name
1613653581	Smart City Solutions for Sustainable Future	Day1_Session1	https://youtu.be/e8NdVRCgRg	BMSCE	02-08-2021	06-08-2021	Dr. Rajeshwari Hegde
1613653581	Smart City Solutions for Sustainable Future	Day1_Session2	https://youtu.be/RHFo6c3CiwE	BMSCE	02-08-2021	06-08-2021	Dr. Rajeshwari Hegde
1613653581	Smart City Solutions for Sustainable Future	Day1_Session3	https://youtu.be/m7sTReR5H8	BMSCE	02-08-2021	06-08-2021	Dr. Rajeshwari Hegde
1613653581	Smart City Solutions for Sustainable Future	Day2_Session1	https://youtu.be/lkyG40pP7oI	BMSCE	02-08-2021	06-08-2021	Dr. Rajeshwari Hegde
1613653581	Smart City Solutions for Sustainable Future	Day2_Session2	https://youtu.be/GllQw461r20	BMSCE	02-08-2021	06-08-2021	Dr. Rajeshwari Hegde
1613653581	Smart City Solutions for Sustainable Future	Day2_Session3	https://youtu.be/W2lXvcVh-Bg	BMSCE	02-08-2021	06-08-2021	Dr. Rajeshwari Hegde
1613653581	Smart City Solutions for Sustainable Future	Day3_Session1	https://youtu.be/Y2l6xTm1Ev4	BMSCE	02-08-2021	06-08-2021	Dr. Rajeshwari Hegde
1613653581	Smart City Solutions for Sustainable Future	Day3_Session2	https://youtu.be/XR1wsT9mM8A	BMSCE	02-08-2021	06-08-2021	Dr. Rajeshwari Hegde
1613653581	Smart City Solutions for Sustainable Future	Day3_Session3	https://youtu.be/llw28R1PCA4	BMSCE	02-08-2021	06-08-2021	Dr. Rajeshwari Hegde
1613653581	Smart City Solutions for Sustainable Future	Day4_Session1	https://youtu.be/bxeysYXwffQ	BMSCE	02-08-2021	06-08-2021	Dr. Rajeshwari Hegde
1613653581	Smart City Solutions for Sustainable Future	Day4_Session2	https://youtu.be/3lz56fNTOU	BMSCE	02-08-2021	06-08-2021	Dr. Rajeshwari Hegde
1613653581	Smart City Solutions for Sustainable Future	Day4_Session3	https://youtu.be/eK9E7X--Mo8	BMSCE	02-08-2021	06-08-2021	Dr. Rajeshwari Hegde
1613653581	Smart City Solutions for Sustainable Future	Day5_Session1	https://youtu.be/NPs2smGho0w	BMSCE	02-08-2021	06-08-2021	Dr. Rajeshwari Hegde
1613653581	Smart City Solutions for Sustainable Future	Day5_Session2	https://youtu.be/Rzve8F7qER4	BMSCE	02-08-2021	06-08-2021	Dr. Rajeshwari Hegde
1613653581	Smart City Solutions for Sustainable Future	Day5_Valedictory	https://youtu.be/-3lCJ-CqoIk	BMSCE	02-08-2021	06-08-2021	Dr. Rajeshwari Hegde
1613653581	Smart City Solutions for Sustainable Future	Feedback_Session1	https://youtu.be/sn_xMGS9v5I	BMSCE	02-08-2021	06-08-2021	Dr. Rajeshwari Hegde
1613653581	Smart City Solutions for Sustainable Future	Feedback_Session2	https://youtu.be/V2p5f6WJzrc	BMSCE	02-08-2021	06-08-2021	Dr. Rajeshwari Hegde
1613653581	Smart City Solutions for Sustainable Future	Feedback_Session3	https://youtu.be/N6ZeOtorDFM	BMSCE	02-08-2021	06-08-2021	Dr. Rajeshwari Hegde

Certificate for handling a session





Certificate of Appreciation for coordination



Certificate No. ATAL/2021/1634908290



ALL INDIA COUNCIL FOR TECHNICAL EDUCATION

Nelson Mandela Marg, Vasant Kunj, New Delhi – 110 070

AICTE Training And Learning (ATAL) Academy



Certificate of Appreciation

*This is certified that **Dr. Rajeshwari Hegde, Professor of BMS College of Engineering, KARNATAKA** has successfully coordinated **ATAL Online Faculty Development Programme** on "**Smart City Solutions for Sustainable Future**" from **02/08/2021 to 06/08/2021.***

Adviser-I, ATAL Academy