

Profile of Jagdish H Godihal

Name: **Dr Jagdish H Godihal**

Designation: Professor and Deputy Dean - Academic Research

Civil Engineering, Presidency University, Bengaluru, Karnataka, India

Education

Degree	Specialization	University
B.E	Civil Engineering	Karnataka University, Dharwad
M.Tech	Environmental Engineering	University of Mysore, Mysuru
Ph D	Civil Engineering	IIT Bombay, Mumbai

Experience

Institution	Position	Duration(years)
MIT Group of Academic and Research Institutions Aurangabad, Maharashtra, India	Asst.Professor, Professor Principal and Director	29.5
Presidency University, Bengaluru, Karnataka, India	Professor	4+ (In Service)

Teaching / Subject specialization: Civil; Environmental; Sustainable Development; Smart Cities; PPBL

A passionate teacher, mentor, impactful researcher and disruptive innovator who inspired/ inspiring the students and faculty members of engineering and technology in particular and other schools of the university in general. Transformation leader in curriculum design for engineering and technology by introducing many courses related to sustainability, technology, climate action and outreach offered across the schools of the university. Students and faculty members affectionately calls me as 'JaGo' for the thoughtful lecturing, motivational and inspiring talks, effective guidance for UG, PG projects, Entry level innovative projects and impactful research guidance to PhD research scholars.

-JaGo (Jagdish Godihal)

Research areas:

- Water and Waste Water Technology; Solid Waste Management; Pollution Control in Industries; Construction and Demolition Waste Management.
- Water Resources and Environment Management;
- Smart Cities, Infrastructure Systems for Urban and Rural Areas;
- Sustainable Material and Technology; Green Building;
- IoT applications in Civil Engineering;
- Engineering Education/Educational Technology/ ICT and NEP2020

Responsibilities [University/Department]:

- Board of Studies (BOS) member in Civil Engineering Faculty of Engineering; Presidency University.
- DAC member Civil Engineering Department
- NAAC Coordinator
- PBL Club- Coordinator
- Research Committee member – Department
- Research Supervisor, Civil Engineering domain
- Teaching Research Methodology for Research Scholars of ALL Schools of Presidency University, Bengaluru.

- Question Paper Audit Committee member
- Course planning documentation internal verification committee member – University.
- Instructor In charge for CIV2006, Infrastructures Systems for Smart Cities (ISSC) (3rd Semester 2020-21) for 22 Divisions of CSE and ECE branches

Academic Contributions at Presidency University Bengaluru

- Introduced 25 New courses in B.Tech Civil Engineering, Smart Cities, and Curriculum design and guided fellow colleagues in designing other courses.
 - Taught/Teaching 3 courses/ Semester - one course each to UG, PG and PhD per semester.
 - Organized the industrial visit to three industries at Doddaballapur Industrial estate, 9th December 2019.
 - Design of curriculum for B.Tech (Smart Cities) commencing from the academic year 2020-2021 at Presidency University, Bengaluru
 - Teaching Research Methodology for doctoral students of Presidency University, Bengaluru (Six batches completed, Seventh is ongoing)
 - Introduced three new courses in M.Tech (BCT), Curriculum design
 - Supervised of four M. Tech students 2020-21 and Supervising Six Doctoral students

Certifications:

Courses Certifications from IIT Bombay, IIT Madras, IIT Kharagpur, IISc Bengaluru, IIT Guwahati, IIT Roorkee, IIT Kanpur, School of Planning and Architecture, New Delhi, IUCEE and Boston University.

Publications details

Type of research paper	No. of papers
Conference papers	40
Journal Papers	International – 6; National - 12
Book - Chapter	3
Book	1
Others:	<ul style="list-style-type: none"> • Articles in Magazines, News Letters, Dailies etc. • Keynote Speaker for 6 International/National Conference and Co- Chair for 2 International/National Conferences and a Member of Advisory and Technical Committee for many International/National Conferences and successfully organized 4 International/National Conferences. • Delivered more than hundred talks in Workshops/ STTP's / Seminars on Sustainable Development, Role of Youths in Environmental Conservation, Industrial Pollution Control, Sanitation, Hygiene and Health, Personality Development, in Schools, Colleges, Professional Institutes, and Rotary Clubs, Youth leadership workshops, Industries in Maharashtra, Karnataka, Uttar Pradesh and Goa. • Reviewed the Papers of ICTIEE 2015 held at Bengaluru and ICTIEE 2016 held at Pune; ICTIEE 2017 held at Hyderabad, Rajkot and Jaipur; ICTIEE 2018 held at Bennett University, Greater Noida and TCE, Madurai; ICTIEE 2019 at Hyderabad, and Chandigarh and ICTIEE 2020 at Hyderabad, ICTIEE2021. • Reviewer for Journal of Water Resource and Protection (JWARP), published by Scientific Research Publishing. (http://www.scirp.org/journal/jwarp), Delaware, USA • Reviewer for Journal Case Studies in Construction Materials, Elsevier • Reviewer for Journal of Environmental Management, Elsevier • Reviewer for Seed Grant for Researchers, Presidency University, India

Appreciation/Honours and Awards Received (Only recently awarded have been listed)

Name of the awarding Body	Date	Any other Details
AICTE, NITTTR Bhopal, Chandigarh, Chennai, Kolkata	Aug 2022	Mentor Certification Orientation Training Programme for Mentors
News Trail- A national Daily, Clarion Communications Private Limited	June 2022	Civil Engineering Expert – For contribution towards Water Conservation and Environment Protection
Construction Industry Development Council, NITI Aayog, GoI	May 2022	Eminent Expert of Construction Industry Development Council
NPTEL, Swayam, AICTE,	Feb 2021	NPTEL DOMAIN SCHOLARS Faculty Discipline -Faculty Domain - Advanced
NPTEL, Swayam, AICTE, IIT Madras	Feb 2021	NPTEL MOTIVATED LEARNERS
NPTEL, Swayam, AICTE, IIT Madras	Feb 2021	NPTEL ENTHUSIASTS
NPTEL, Swayam, AICTE, IIT Madras	Feb 2021	NPTEL BELIEVERS
McMaster University, Canada	Dec 2021	Honours certification in Mind shift: Break Through Obstacles to Learning and Discover Your Hidden Potential
NPTEL, Swayam, AICTE, IIT Madras	Feb 2020	NPTEL BELIEVERS
Department of CSE, IIT Bombay, Mumbai	June 2021	Invaluable contribution as a Discussion Forum Moderator for the course on Soft Skills, conducted on IIT BombayX MOOC platform from Jan 2021 to May 2021.
AICTE-EXAMINATION REFORMS WORKSHOP organized by Faculty Development Cell, AICTE and Chitkara University, Chandigarh	July 2021	AICTE appreciates my efforts in preparing and presenting the paper during the Examination Reforms Workshop.
NPTEL, Swayam, AICTE, IIT Madras	Oct 2021	NPTEL DOMAIN SCHOLARS Management Discipline Patents and Intellectual Property Rights

Memberships of Professional bodies:

- Life Member Indian Water Works Association, LM 4967
- Life Member Indian Society of Technical Education, LM 5035
- Life Member Indian Institution of Industrial Engineering, SMIE-10270 (23)
- Member Institution of Engineers (I) AM 58035
- Life Member Indian Society for Agricultural Engineers, LM-10722

Details about the Invited Talks/Key Note Address/Chairing the Session/Guest Lectures Delivered at various Institutes/Organizations/Associations (Only recently attended to have been listed)

Title of the Talk delivered/ Moderator Panel Discussion	Date	Details of the Organizer
Moderated the Panel Discussion on “Futuristic trends in Nano-Technology”	13 April 2023	SERB sponsored 2 Day National Symposium on Current and Futuristic trends in Nano Science and Technology (NSNST-2023) at Presidency University, Bengaluru
Sustainable and Eco-friendly Concrete Hollow Blocks Manufactured using Construction and Demolition Wastes Compiling to 3-D of Sustainability.	21 March 2023	Construction Industry Development Council, NITI Aayog, GoI and Ozone Cell, MOEF&CC, GOI
Environmental Citizenship and Climate Change	28 Feb 2023	National Science Day 2023 SBVS School, Kaiwara, Karnataka

Key Technology in making Villages Smarter	13 Feb 2023	Short Term Course on " Making Villages Smart" organized by the Department of Civil Engineering, NITTTR, Chandigarh, 13-17 Feb 2023
One of the panelist for Panel Discussion on “Electric Vehicle Technology and Battery Management System- Challenges, Opportunities & Indigenous Solutions”	7 Feb 2023	Department of EEE, Presidency University, Bengaluru in Association with EV Retron Energies Pvt. Ltd, Hyderabad, IEEE, Bengaluru Section
One Week National Workshop on “Facets of Sustainable Urban Infrastructure” 09 -13 Jan, 2023	13 Jan 2023	Dept. of Construction Technology and Management, S. J. College of Engineering, JSS STU, Mysuru - 570 006, Karnataka, India
Recycled Aggregate Concrete - Sustainable and Functional Composite Construction Material, Five Day FDP on Advances in Concrete Technology (AICT-2022)	22 Dec 2022	Dept. of Civil Engineering Ballari Institute of Technology & Management, Bellary, Karnataka, India
Smart city - Concept, benefits, challenges and technologies. Five Day STTP on "GIS for Smart City"	13 Dec 2022	STTP on "GIS for Smart City" organized by the Department of Civil Engineering, Presidency University, Bengaluru in association with Karnataka Science and Technology Academy (KSTA), Bengaluru, 12-16 September 2022.
Infrastructure Systems for Smart Cities	16 Sept 2022	Short Term Course on "Artificial Intelligence & IoT Applications in Civil Engineering"" organized by the Department of Civil Engineering, NITTTR, Chandigarh, 12-16 Sept 2022
Self-Sustainable Building – Concept Map, Five Day STTP-SSB	12 Sept 2022	STTP on "Self-Sustainable Building" (STTP-SSB) organized by the Department of Civil Engineering, Presidency University, Bengaluru in association with Karnataka Science and Technology Academy (KSTA), Bengaluru, 12-16 September 2022.
Self-Sustainable Building Construction Approaches, Five Day STTP-SSB	12 Sept 2022	STTP on "Self-Sustainable Building" (STTP-SSB) organized by the Department of Civil Engineering, Presidency University, Bengaluru in association with Karnataka Science and Technology Academy (KSTA), Bengaluru, 12-16 September 2022.
Universal Human Values	9 Sept 2022	Orientation program for 1st year Students of School of Law, September 2022, SOL, Presidency University, Bengaluru
OBE, Blooms Taxonomy and Question Papers	18 Aug 2022	5-day Faculty Development Programme on Outcome Based Education held t Presidency University, Bengaluru during 12-18 August, 2022.
Construction Waste Management: Emerging and Sustainable Issues.	6 July 2022	School of Civil Engineering, College of Engineering Universiti Teknologi MARA, Malaysia
Stake holder transformative actions Changes Landscape of urban water	5 June 2022	Water Conclave on ‘Water: Bengaluru on the brink' organized by News Trail, English national daily Bengaluru, on World Environment Day at Hotel Lalit Ashok, Bengaluru.
Smart Sustainable Building and Three Dimensions of Sustainability	6 May 2022	Construction Industry Development Council, NITI Aayog, GoI and Ozone Cell, MOEF&CC, GOI
Keynote Address on “Invest in Our Planet to Build a Sustainable Future” On the occasion of World Heritage Day and Earth Day	22-Apr-22	The Institution of Engineers (India), Karnataka State Centre, Bengaluru, Karnataka, India

Sustainable Smart Cities – Systems of Systems Integration	11-Apr-22	Faculty Development Program (FDP) on Emerging Trends in Engineering for Sustainable Development (ETESD'22) during 6-14 April, 2022. School of Engineering and Technology (SET), IIMT University, Meerut (UP)
Connecting Research Scholars with Research Supervisor for Academic Research: A few Insights and a way forward	9-Apr-22 13-Apr-22	In house Faculty Interaction Session for Civil/EEE/MEC/ Physics/ Chemistry and Mathematics departments and School of Commerce - Presidency University, Bengaluru
Invited Talk on “C&D Waste Management Practices and Environmental Sustainability”	8-Apr-22	Vashudhev Kutumbkam-3 (Third International Conference on Entrepreneurship Innovation and Research for Environmental Sustainability) 07-08, April, 2022, Research Cell. BNC, University of Delhi, India
Environmental Sustainability	28-Mar-22	K. K.Wagh Institute of Engineering Education and Research,Nashik-422003, Maharashtra
C & D Waste Management - A Sustainable Approach	22-Mar-22	6 Day FDP on “Sustainable Energy Efficient Green Technology” organized by Dept. of Civil Engineering, MSRIT, Bengaluru; Sponsored from KSHEC, GoK, Bengaluru
Insights of Mentoring - Training	21-Mar-22	Student Mentorship Cell, Presidency University, Bengaluru
Geo-environmental Engineering- A Case Study	18-Mar-22	Five Day Faculty Development Program on “Case Studies in Geotechnical Engineering” from 14th to 18th Mar, 2022, organized by CED, PUB and ISTE Chapter, PU Bengaluru
PBL- Gateway for enhancing Attitude, Knowledge and Skills.	26-Feb-22	Project Based Learning (PBL) Club, Dept. of Student Affairs in association with Department of Electrical and Electronics Engineering, Presidency University, Bengaluru and Karnataka State
Innovative approaches in reusing and recycling of C&D waste materials to comply the 3D of sustainability	24- Feb. 22	5Days FDP sponsored by VGST, GoK, on "Recent developments in advanced materials processing techniques and characterization". 21st February 2022 to 25th February 2022 organized by Department of Chemistry, Presidency University, Bengaluru
TEACH, CONNECT, DESIGN	20-JAN-22	School of Design, Presidency University, Bengaluru
Moderated the panel discussion on "YOUTH AND SUSTAINABLE DEVELOPMENT"	12- Jan. 22	Project Based Learning (PBL) Club, Dept. of Student Affairs in association with Department of Civil Engineering, FORCE - Forum of Civil Engineering, School of Engineering, Presidency University, Bengaluru and Karnataka State Pollution Control Board, Bengaluru and Environmental Engineers Association, Bengaluru as a part of National Youth Day celebrations
Waste Water Management	12- Jan. 22	Six Days AICTE & MRSPTU sponsored Faculty Development Programme on ‘Waste Management & Environmental Protection for Sustainable Development from 10th -15th January 2022 organized by the Civil Engineering Department of Baba Farid College of Engineering and Technology, Bathinda, Punjab

Energy conservation, Global Warming and Climate change	29- Dec. 21	Celebration of National Energy Conservation Day by Department of Electrical Engineering, Govt Engineering College, Aurangabad, Maharashtra
Technology Enabled Recurrence Flood Disaster Mitigation in Flood Plain Of North Karnataka	29-Oct. 21	5 Days Training Program on “Technology Enabled Recurrence Flood Disaster Mitigation in Flood Plain of North Karnataka”. NIDM, MHA, GoI, Collaboration with Presidency University, Bengaluru.
Flood Modelling -Insights	27-Oct. 21	5 Days Training Program on “Technology Enabled Recurrence Flood Disaster Mitigation In Flood Plain Of North Karnataka”. NIDM, MHA, GoI, Collaboration with Presidency University, Bengaluru
Engineers and Futuristic Engineering for a Healthy Planet	15-Sept. 21	Department of Civil Engineering and FORCE - Forum of Civil Engineering, School of Engineering, Presidency University, ENGINEERS’ DAY
Relevance of RS and GIS in creating infrastructure systems for smart cities	20-Aug 21	5 Day FDP on Geospatial Applications in Civil Engineering 16th - 20th August, 2021 Department of Civil Engineering in association with Karnataka State Remote Sensing Applications Centre (KSRSAC)
Tools and Techniques for Effective teaching	18 Aug 21	Faculty Induction Program for newly recruited faculty members, organized by Presidency University, Bengaluru
Tools and Techniques for Effective teaching	12 Aug 21	Faculty Induction Program for newly recruited faculty members, organized by Presidency University, Bengaluru
Session Chair- WRE, GIS and Environmental Engineering	9 July 21	5th International Conference on Advanced Research in Civil Engineering, 9th & 10th July 2021 ICARCE-2021Reva University Bengaluru
Sustainable Smart Cities	15-Jun-21	AICTE sponsored ATAL FDP organized by Department of Civil Engineering, University Visvesvaraya College of Engineering, Bangalore University, Bengaluru
Sustainability: Eco-Centric Concerns	7 June 21	Department of Civil Engineering and FORCE - Forum of Civil Engineering, School of Engineering, Presidency University, ENVIRONMENT DAY.
Environmental Capacity	5-Jun-21	International Association of Environmentalists and Eco-socialists under Bestow Edutrex International, Mumbai. International Symposia on Ecosystem Restoration.
Teacher, Teaching and Technology (3T) for Active Learning using Blooms taxonomy	7 April 21	AICTE–ISTE sponsored Induction / Refresher Program on “Active Teaching- Learning Process” (Phase-2) Mauli Group of Institution’s College of Engineering& Technology, Shegaon, Maharashtra
Blooms taxonomy for deriving effective learning outcomes	5- Mar 21	AICTE–ISTE sponsored Induction / Refresher Program on “Active Teaching- LearningProcess” (Phase-1) Mauli Group of Institution’s College of Engineering &Technology, Shegaon, Maharashtra

Blooms taxonomy - Active learning	24 Mar 21	AICTE–ISTE sponsored Induction / Refresher Program on “Active Teaching- Learning Process” (Phase-2) Mauli Group of Institution’s College of Engineering& Technology, Shegaon, Maharashtra
NEP-2020 BVI Aurangabad, Maharashtra	9 Aug 20	New Horizons of Education: Teachers' Embrace the change - A Brief Insight”
Design for Environment for Future Engineers in a Training Programme on Green Technologies for Sustainable Development (July 27- 31, 2020)	28 July 20	NITTTR Bhopal
Environment friendly self-reliant housing for Sustainable living	24 July 20	Reva University, Bengaluru, Karnataka
Time for Nature: Engineered Systems to Nurture the Nature for the Future	11 June 20	Dept. of Civil Engineering in Association with BITM IQAC Cell Ballari Institute of Technology & Management, Bellary

- Delivered over 200 talks on Environmental Conservation, Materials and Environment, Water management, RWH, Role of Youths in development, in Schools, Colleges, Professional Institutes, and Rotary Clubs, Youth Leadership workshops, in Maharashtra, Karnataka, UP, Goa.
- Delivered a technical talk on “Design for Environment and Sustainability” during one week faculty development program (FDP) on “Advanced Materials for Water, Energy and Health”, jointly organized by Department of Polymer Science and Technology and Department of Environmental Engineering, SJCE, Mysuru, under #TEQIP-3 sponsorship during 22nd – 27th July 2019 at SJCE Mysuru, on 24/07/2019;in Session - 4; to the researchers, teachers and students from interdisciplinary branches of science, engineering and technology (50 Participants).
- Invited Technical Talks in 5-day CEP for the Engineers of GoK on “Water Supply and Rain Water harvesting” Session 1: Emphases on Water quality assessment and Water infrastructure planning and policy decision support; and Session 2: Accomplishment of RWH and Role of IWM on 27/06/2019 at Basaveshwara Engineering College (BEC), Sponsored by Karnataka Engineering Research Stations Engineering staff college, KRS, Mysuru.
- Delivered and Interacted with the students on the topic “Developing Attitude to Nurture the Nature for the Future” at Govt. High School Kakolu, Bangalore North, on 8/07/2019 (200 Participants)
- Delivered a technical talk in “Induction Program for New Faculty Members (2nd Batch)” at Presidency University, Session 3: “Teaching for 21st Century” and Session 4: “Maximize Learning through Blended Approaches” for newly recruited faculty members on 19/07/2019. (50 participants)
- Chaired the Technical Session 5 (Day:2, 10:30 am to1:00pm) of 35th National Convention of Environmental Engineers on “Green Technology for Clean and Green India” 17-18 August 2019 held at The Institution of Engineers (India), Karnataka State Centre, Bengaluru.
- **My blogs:** <http://godjag999.blogspot.in> <http://godjag99.blogspot.in>

List of Publications (Only recently published have been listed)

Journal Publications			
Title of the Article	Name of the Journal	Type of Journal (National/International)	Volume, Month, Year, ISBN/ ISSN
Environmental Impact Assessment of Anthropogenic Activities and Conceptual Restoration Strategy for Kham River in Aurangabad, India	Current World Environment	International, scholarly peer-reviewed research journal, UGC Care, Scopus Indexed	Vol. 15, No. (3) 2020, Pg.663-682 ISSN: 0973-4929
Social Immersion Project for Experiential Learning of Sustainable Farming Practices: A Case Study	Journal of Engineering Education Transformations (JEET)	International, scholarly peer-reviewed research journal, UGC care, Scopus Indexed	Volume 33, Jan 2020, Special issue, eISSN 2394-1707

Papers presented in Conferences, Seminars, Workshops, Symposia (Only recently presented have been listed)

Title of the Paper/talk	Title of Seminar/ Conference/Workshops	Organized by /Date	
Sustainable Infrastructure System for Solid Waste Management in Bengaluru City	Sustainable Infrastructure: Innovations, Opportunities and Challenges (SIIOC 2023)	NITK Surathkal, India, 20-21 April 2023	International
Sustainable Pathway for implementing Fecal Sludge Management in Rural areas	Sustainable Infrastructure: Innovations, Opportunities and Challenges (SIIOC 2023)	NITK Surathkal, India, 20-21 April 2023	International
Nano Technology Applications in Conversion of Municipal Solid Waste into Compost	Current and Futuristic trends in Nano Science and Technology (NSNST-2023)	SERB sponsored 2 Day National Symposium Presidency University, Bengaluru, 12-13 April 2023	National
Applications of Microbial Nanotechnology in Faecal Sludge Management for Rural Areas of Chickaballapur District	Current and Futuristic trends in Nano Science and Technology (NSNST-2023)	SERB sponsored 2 Day National Symposium Presidency University, Bengaluru, 12-13 April 2023	National
Smart Nano Sensors Enabled Governance in MSW Management In Smart Cities	Current and Futuristic trends in Nano Science and Technology (NSNST-2023)	SERB sponsored 2 Day National Symposium Presidency University, Bengaluru, 12-13 April 2023	National
Correlation Between Compressive Strength And Microstructure Of Recycled Aggregate Concrete Hollow Block	Current and Futuristic trends in Nano Science and Technology (NSNST-2023)	SERB sponsored 2 Day National Symposium Presidency University, Bengaluru, 12-13 April 2023	National
Evaluation of Accumulation Potency of Arka Plant Varieties for Metals and Nutrients Through Natural Biological Treatment.	Current and Futuristic trends in Nano Science and Technology (NSNST-2023)	SERB sponsored 2 Day National Symposium Presidency University, Bengaluru, 12-13 April 2023	National
Eco-Friendly Mud Blocks made using Nano-Materials from Agricultural, Industrial, Construction and Demolition Waste for Sustainable Construction	Current and Futuristic trends in Nano Science and Technology (NSNST-2023)	SERB sponsored 2 Day National Symposium Presidency University, Bengaluru, 12-13 April 2023	National

Optimizing the Properties of Recycled Aggregate Concrete	Cement and Building Concrete for a sustainable and Resilient infrastructure (CBKR 2023)	NIT Warangal, India 28-29 March, 2023	International
Studies on the mechanical properties of the concrete with varying percentage of replacement levels of recycled coarse aggregate	Cement and Building Concrete for a sustainable and Resilient infrastructure (CBKR 2023)	NIT Warangal, India 28-29 March, 2023	International
An Improved Methodology for making Recycled Concrete Aggregate (RCA) - Sustainable Construction Material	Conference on Advances in Construction Materials & Management (ACMM-2022)	NIT Warangal, India 16- 17, Dec 2022	National
Recycled Aggregate Concrete Hollow Block as a Sustainable Walling Material	Conference on Advances in Construction Materials & Management (ACMM-2022)	NIT Warangal, India 16- 17, Dec 2022	National
Analyses of the Heat Conduction Through Cavities in the Concrete Hollow Blocks made of Recycled Concrete Aggregate using the Finite Element Method (FEM)	Conference on Advances in Construction Materials & Management (ACMM-2022)	NIT Warangal, India 16- 17, Dec 2022	National
Methodology for construction waste reduction and reuse based on productive resource utilization	12 th National Conference on Science &Technology for Start-ups,	KSTA, DST, GoK and SSIT, Incubator, SSIT, Tumakuru	National ISBN978-81-924535-0-0
Urban Water: How Impactful Transformative Actions Changes its Landscape	Water Conclave WED2022	News Trail Bengaluru 5, June 2022	Regional
Smart Sustainable Building and Three Dimensions of Sustainability	3rd Workshop for Ozone Cell On “Good Management Practices for Energy Efficient Buildings by introducing Passive Cooling Designs, to reduce operational costs, improve health and comfort and promote use of non HCFC low GWP alternatives”	Construction Industry Development Council (CIDC) and Ozone Cell, Ministry of Environment, Forest and Climate Change, Govt. of India. 6 th May 2022	National
C&D Waste Management Practices and Environmental Sustainability	Conference - Entrepreneurship Innovation Research for Environmental Sustainability	Research Cell. BNC, University of Delhi, India 7-8, April 2022	International
Accomplishing Sustainability In Construction Using Processed C&D Waste Material	RAMEAF-2021	AICTE Sponsored Conference, Sir MVIT Bengaluru,17-19,Jan 22	National
Assessment of Residential Building using indicators of Sustainability	Disaster Resilience and Sustainable Development	AIT , Bangkok, Keio University, Japan. Elsevier,24-25,June 21	International

Grant/Funding Received

Title of the project Funding/Grant, Year	Name of the Organization	Status
Studies on Flood Disaster Mitigation in Flood Plain of North Karnataka”. 2021	NIDM, MHA GoI,	Completed
Technology Enabled Decision Support Systems (DSS) for Smart Sustainable Dwelling	Seed Grant, Presidency University, Bengaluru, Karnataka	Completed
Self- Sustainable Buildings, 2022	Karnataka Science and Technology Academy (KSTA), GoK,	Completed

Patents Published,

Title of the Patent	Name of the Publisher	Application Number
A Vehicle Detection and Alert System	Controller General of Patents, Designs & Trade Marks, India	202241071851 (December 2022)
An Energy Conserving Water Pumping System and A Method Thereof	Controller General of Patents, Designs & Trade Marks, India	202241074153 (December 2022)

Book Chapter

Title of the Article	Name of the Book	Publisher	Status
Sustainability Assessment Methodology for Residential Building in Urban Area – A case study	Multi-Hazard Vulnerability and Resilience Building: Cross Cutting Issues	Elsevier	ISBN: 9780323956826 (1st Edition - February 1, 2023)
Smart Sustainable Cities: Internet of Things (IoT), Citizens and Big Data	Futuristic Trends in IOT	IIP Iterative International Publishers, India	ISBN: 978-93-95632-69-0 (January 2023)

Book

Title of the Book	Name of the Publisher	Status
Futuristic Trends in IOT	IIP Iterative International Publishers, India	ISBN: 978-93-95632-69-0 (January 2023)

Symposium/Conference/ Workshops / FDP /FTP /Training Program Organized

Title of the Symposium/Conference/ Workshops/FDP	Duration (Days)	Dates	Sponsored/Organized by
Co-Convener for 2 Day National Symposium on Current and Futuristic trends in Nano Science and Technology (NSNST-2023)	2	12-13, April 23	SERB sponsored, Organized at Presidency University, Bengaluru
Convener of In-house FTP on “Infrastructure Systems for smart cities”.	7	11-18, Aug 21	CED, Presidency University, Bengaluru
Convener of Training Program on “Technology Enabled Recurrence Flood Disaster Mitigation in Flood Plain of North Karnataka”.	5	25-29, Oct.21	NIDM, MHA GoI, collaboration with Presidency University, Bengaluru

Convener of Training Program on “Energy Swaraj” Prof. Chetan Singh Solanki, Solar Man and Professor IIT Bombay, Mumbai	½	24-Mar-22	PBL, DSA, Presidency University, Bengaluru, Karnataka
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ATAL AICTE FDPs Attended (Only recently attended have been listed)

Title of the FDP	Duration(Days)	Dates	Organized by
Artificial Intelligence	5	15-19, Jun 2020	AICTE, AICTE Training and Learning (ATAL) Academy and FICCI, New Delhi.
Sustainability	5	17-21, Aug 2020	AICTE, AICTE Training And Learning (ATAL) Academy, New Delhi. And Gaya College of Engineering Gaya
Electric Vehicles	5	24-28, Aug 2020	AICTE, AICTE Training And Learning (ATAL) Academy, New Delhi. And PSG College of Technology, Coimbatore
Internet of Things (IoT)	5	14-18, Sept 2020	AICTE, AICTE Training And Learning (ATAL) Academy, New Delhi and Indian Institute of Information Technology Kottayam.
Instructional Design For Effective Teaching	5	5- 9, July 2021	AICTE, AICTE Training and Learning (ATAL) Academy, New Delhi, BM Munjal University, Gurgaon
Sensors Technology	5	12-16, July 2021	AICTE, AICTE Training and Learning (ATAL) Academy, New Delhi, IIT Jammu
GreenBuildings and Built Environment	5	2-6, July 2021	AICTE, AICTE Training And Learning (ATAL) Academy, New Delhi, IGBC, and Confederation of Indian Industry (CII).

UHV Courses Attended:

Title of the UHV course	Duration (days)	Dates	Organized by
Faculty Development Program- Student Induction on UHV Refresher1 (Part 1)	5	7-11, Feb 2022	AICTE, New Delhi.
Inculcating Universal Human Values in Technical Education	5	22-26 Dec 2020	AICTE, New Delhi.

Coursera Courses Certification

Introduction to Climate Change and Health
Climate Adaptation for Human Health
Communicating Climate Change and Health (Yale University)
Climate Change and Health: From Science to Action"
Mindshift: Break Through Obstacles to Learning and Discover Your Hidden Potential
Statistics with SAS
Management of Urban Infrastructures – part 1

Introduction to Public Health Engineering in Humanitarian Contexts
Project Management & Other Tools for Career Development
Initiating and Planning Projects
Managing Project Risks and Changes
High-Impact Business Writing
The Art of Negotiation
Effective Problem-Solving and Decision-Making"
The Sustainable Development Goals – A global, trans disciplinary vision for the future
Smart Cities – Management of Smart Urban Infrastructures
Learn to design your solar home system
Introduction and Programming with IoT Boards
Air Pollution – a Global Threat to our Health

Conferences Attended, (Only recently attended have been listed)

Title of the Workshop/Conference	Dates	Organized by
Green Building Congress 2021 International Conference & Expo on Green Built Environment.	18-20 Nov.2021	IGBC and CII HIVE-Virtual Platform.
IDEA- International Debate on Examinations & Assessment	8-11, June 2021	COE- India, SkillSlate Pune
SIU-AIU's IHE Conference (Virtual) Reimagining Internationalization -Blende Education as a Catalyst	6-9, April 2021	Symbiosis International (Deemed University) and Association of Indian Universities (AIU)
Effective and Efficient Online Teaching in the Age of Corona, A Hands on Workshop'	16-17,May 2020	Teaching Learning Centre (ICT) at IIT Bombay, funded by PMMMNMTT, MHRD, Govt. of India
Environment, Land and Society	1-3, Dec 2020	Rabindranath Tagore University & C V Raman University, Jointly organized with IAWEEES, IHE Delft, NIH, MP-WALMI,

Action Plan:

My association with engineering education laterally, vertically (entry level to heading the institute), with a focus on building capabilities over three decades at institutes across India (<https://www.linkedin.com/in/jagadeesh-godihal/>) has simplified the approach and the methodology of imparting the professional education on two aspects, firstly Imparting Quality Education, derivative of contact hours of teachers with the students, secondly, Creating Sustainable engineer. "If you are teacher in whatever capacity you have a very special role to play because more than anybody else, it is you who are shaping the future generations" Dr. A P J Abdul Kalam. The qualitative contact hours between students and the teachers tremendously improves learning capabilities of the students. Teachers must invest more time in teaching, counseling first. It is imperative for the teachers to engage the classes qualitatively and the highly qualified teachers of the institute should provide quality time to the students in the class, laboratory and on field visits, during the academic year, to make the students to learn, unlearn and relearn to acquire more and more knowledge of the domain and other interdisciplinary areas to face the challenges impeccably (<https://www.linkedin.com/pulse/standup-teachers-stand-out-remembered-dont-lost-crowd-jagdish-godihal/>).

Engineers of the future need to think differently, in their approach of planning, designing and executing the projects in the development of the nation. Legendary Engineer Dr Sir M Visvesvaraya rightly said "Plan or Perish" is very relevant today. However, an extension to that will be Plan, Design and Execute to sustain based on the principles

of sustainable development (<https://www.linkedin.com/pulse/engineers-future-need-think-differently-dfe-jagadeesh-godihal/>). To move towards conditions of sustainability, engineers must design and deliver projects that address sustainability holistically (from concept to demolition or reuse). Traditional Engineering Design Criteria (TEDC) incorporate Function, Cost, and Safety, wherein Sustainable Engineering Design Criteria (SEDC), emphasis about Impact on people (society) and Impact on the planet (environment) in addition to TEDC. Such a design approach to reduce the overall human health and environmental impact of a product, process or service, where impacts are considered across its life cycle is known as Design for the Environment (DfE). My focus will be empowering budding engineers with knowledge, power of innovation, positive attitude and a proactive thinking, in domain and interdisciplinary areas concern for nature. Integration of ICT in education systems for effective implementation of NEP2020. Above all, to ignite young minds to serve and excel in all walks of life.

Contributions at Previous Institute:

Set many innovative trends in academic environment with value additions like

- III Cell-2005; EDP cell-2005; R & D Cell 2006; Environment Citizenship Cell-2005; T & P Cell- 2005;
- Continuous reforms in academic at MIT 2006, 2007, 2009, 2011, 2015;
- Student Council 2005; online exam-2005; Digital Library-2005; Infosys Campus Connect 2008 and online learning facilities 2005, 2009.
- GATE Exam Centre-2007, Continuous reforms at MIT as a University examination center 2006, 2008, 2009, 2011 & 2015.
- BAJA SAE-2007, National Youth Parliament Competition, 2016.

Industry/organizations Institute Interaction:

- Worked as Governing Body Member secretary/member of MIT (E), 2004 -2007;2013-2016.
- Worked as Governing Body Member secretary/member of MIT (T), 2007-2008; 2013 to 2017
- Member, Environment Committee, Maharashtra Chamber of Commerce, Industry & Agriculture (MACCIA), 2018 – 2020.
- Member of Chamber of Marathwada Industries and Agriculture (CMIA) - EHS cell, 2014- 2016.
- Conducted 1-day workshop on Basics of ETP for 50 managers from Industries located at Aurangabad, 23 Dec 2015. Industry/organization collaborative/project-based learning and supervision of field/project work has been done on regular basis since 1989.
- Worked as an Experts Committee Member:
 - For Rapid Performance Audit Committee (RPAC), constituted by Govt. of Maharashtra to assess the performance of Aurangabad W/S schemes during the year 2001;
 - For Environmental Public hearing of M/s Empire mall Pvt. Ltd. Aurangabad Constituted by MPCB, Ministry of Environment, Govt. Maharashtra, 2006 and
 - For establishment of TSDF for MSW AMC, Aurangabad, Constituted by MPCB, Ministry of Environment, Govt. Maharashtra, 2007.
 - Consultancy services to MPCB, Ministry of Environment, Govt. Maharashtra:
 - Noise Level Monitoring during last 5 days of Ganesh Festival 2006; 8-13 Sept. 2006; and
 - Noise Level Monitoring during last 5 days of Diwali Festival in Nov. 2007

Awards/recognitions:

- Best Teacher, 2004 by Gurujan Satkar Samiti, Aurangabad
- Best ISTE Chapter 1995, as Secretary of ISTE MIT chapter
- Innovator of the Future, 2020 – Presidency University, Bengaluru

Awards (as member of Team / for Organization):

- The project “Urban River Restoration: Case Study of Kham River, Aurangabad”, under my supervision had won the Maharashtra State Level First Prize at DIPEX 2017, (March 2017)
- Chairman’s award for outstanding performance in BAJA SAEINDIA 2007 Competition held at Pithampur, Indore. Team ranked sixth all over India. (March, 2007), won first in 2010.

Voluntary Services:

- The voluntary blood donation Camp at MIT Aurangabad, twice a year (19th Feb. & 8 Aug.) 2004 to 2008; 2013, 2015, 2016 and @ MIT B on 23 Sept.2009 & 4 Oct. 2010, 2011, 2012.
- Shramadan and Tree Plantation Camp at MIT on October 2, 2004 and the Cycle Rally of Civil Engineering students in Aurangabad city for Social Cause Awareness Campaign (SCAC), about Environment, Population, AIDS, Child Labour, and Peace & Harmony.
- Convener, Central Youth Festival of Dr. Babasaheb Ambedkar Marathwada University, Aurangabad at MIT Aurangabad, 3 – 6 Feb. 2005.
- Addressed about 1000 young budding engineers on Role of Youths in present context @ MIT Aurangabad on 12 Jan 2008; MIT Bulandshahr on 12/01/2011 & 2012, on the eve of Youth day and administered oath on 5 points: 1. Self-Discipline 2. Optimal use of Natural Resources, 3. Societal obligation, 4. Awareness about AIDS 5. Inculcating human values and Professional ethics.

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- LinkedIn <https://www.linkedin.com/in/jagadeesh-godihal/>

Date: 02/05/2023

Professor Jagdish H. Godihal