Dr. T. Manjari Ph.D., Assistant Professor| NATIONAL INSTITUTE OF TECHNOLOGY KARNATAKA

Dr. T.	Man	jari Ph.D., Ass		ATIONAL INSTITUTE OF TECHNOLOGY KARNATAKA				
				ON AND SCHOLASTIC ACHIEVEMENTS	**			
Dl. D. D):l di a	Program		Institute Indian Institute of Technology Madras, Chennai, Tamil Nadu	Year 2024			
			onstruction Management ology and Management					
M. I e	cii. iii C	B.E. in Civil Engi						
Clas	r) IIX es		Secondary Education)	B.V.M. Matric Higher Secondary School, Pollachi, Tamil Nadu	2012			
Gias		ıss X (Tamil Nadu N		Our Lady of Lourdes Matric Higher Secondary School, Pollachi, Tamil Nadu	2006			
Proficien		holder Gold Meda						
1st (2009-10), 3rd (2011-12)(2008-12) of Cambridge (90-100%) (2009) Top 30 UG selected for M/s. L&T's Build India Scholarship XV (2011-12)(2008-12)								
JOURNAL PUBLICATIONS								
				nurthy. (2020). "Studies on properties of binary, ternary and quaternary mixes of A				
			v cement content for application as masonry unit." Journal of Masonry International, International Masonry Society 33(2), 36–63.					
			C. Manjari and K. Ramamurthy (2023), "Influence of curing methods on mine overburden-based geopolymer aggregate properties."					
			rnal of Building Engineering, Volume -71, 106502, ISSN 2352-7102.					
			T. Manjari , V. Manoharan, K. Ramamurthy (2023), "Effective utilization of mine overburden soil in producing aggregates by lletization." <i>Journal of Construction and Building Materials</i> , Volume -407, 133408, ISSN 0950-0618.					
Sympos	ium			3rd Feb'23 IITM India 12/30 international finalist Presentation, poster & video con	test			
Бунгров	TGIH	Tourig Resea	rener by imposium oo jun e	COURSE PROJECTS	test			
CEEO20	Const	ruction planning	Developing work breakd	lown structure/milestone activities, baseline schedule, resource allocation/leve	eling,			
CE5020	& cor			lysis for modular fabrication of offshore oil drilling platform at Kattupalli, Chennai				
		construction tool	Implementation of lean at 2 construction sites (Oil drilling platform fabrication yard & apartment construction)					
CE6050		epts &	through lean tools such as value stream mapping, process/ crew balance charts, tour-based work sampling					
		cations	for different activities					
CE6030		ruction	Financial performance evaluation of balance sheet, cash flow statements, profitability indicators, financial ratios,					
	econo	omics and finance	share value for M/s NCC lit. Cyber-enabled collaboration project: IIT Madras, Virginia Tech, University of Twente, University of Washington					
CE5100		ruction software	Designing, cost estimation, scheduling, modeling, 4D simulation, optimization, life cycle energy analysis for					
GLS100	lab		extended construction of an existing property in Holland BIM: Revit, Sim Vision, Navisworks					
	Globa	l Construction	Multi-institutional team project: IIT Madras, NC State University, Tianjin University, University of Calgary					
CE5334		eering &	Comparative study on the design and construction practices -similarities and differences for multifamily					
	mana	gement practices	residential buildings between India and USA					
	Main	&Rehab. Const.	Assessment and proposing repair strategies/ techniques for an existing building in foreshore estate-					
CE5120	facilit		Chennai, through visual assessment and non-destructive techniques: rebound hammer, Ultrasonic pulse velocity					
CE (0.1.0			test, half-cell potential test, cover meter, profo meter, carbonation test, chloride test Liquidity damages analysis on court case; case 1: CAIL India Case 2: Delhi Dayalonment Authority					
CE6010		cifications	uction contracts Liquidity damages analysis on court case; case 1: GAIL India Case 2: Delhi Development Authority Investigation of irregularities in bidding & award of contract for 2010 Commonwealth Games project					
		inable						
CE5014		ruction						
CE6110	Adva	nce concrete	Study on curing of concrete : Need, methods, effect on strength, cost estimate Relative analysis					
CEUIIU		ology		nanomaterials on concrete properties: Potential effects & enhancement mechani	sms			
CE5950		acterization of	Quantification of amorphous content by XRD-PONKCS for soil & cementitious materials					
		ruction materials		ns using external & internal standard methods, direct comparison method				
ID6103		ical Transmission on Microscopy		ic & powder samples for obtaining bright & dark field images, selected area exing using TEM Iron milling, electro jet polishing, ultrasonic disc cutting				
	Licet	он мисгозсору	unitaction patterns, ma	STUDENT PROJECTS				
		Deformation	study on vertical rectangu	,)11-12)			
Underg		e Stress and de		rectangular slip formwork systems using ANSYS software	,			
1111111 }	project	Optimized red	ctangular slip formwork des	sign for damage-free concreting and durable formwork based on stress-deflection a	nalysis			
Underg	raduat		idge design for Pandavaiya)11-12)			
main j		Data collectio	Data collection on Pandavaiyaru river flow profiles, meandering patterns, and hydraulic analysis for designing bridge structure					
_	,	Comparative	Comparative design study on the conventional and post-tension bridge deck Pile foundation design Auto CAD & STADD pro. Influence of lightweight aggregate on internal curing of concrete (2013-14)					
M.Tech	Droio		Manufacture lightweight aggregate from fly ash using alternate binders optimizing pelletization parameters (2013-14)					
M. I CCII	. r r oje		Manufacture lightweight aggregate from fly ash using alternate binders [optimizing pelletization parameters] Comparative study on using cold bonded & sinter-hardened fly ash aggregate on internal curing for different curing conditions					
			Study on the manufacture and properties of lightweight aggregates from overburden soil (2015-24)					
Ph.D. Resear			Suitability of mine overburden soil for manufacture of sintered LWA pelletization chemical binders and mineral admixtures					
		Relative influ	Relative influence of methods of manufacture and hardening Conventional sintering, geopolymerization, microwave curing					
				ROFESSIONAL EXPERIENCES				
				ision at ESIC Model Hospital, Coimbatore (25th Nov -5th I	,			
			Project: Design, planning, and construction of the hospital, medical college students' hostels, staff quarters, and accessory buildings					
			Exposure: Survey, quantity surveying, scheduling, reinforcement detailing, concreting, mass foundation for G+6-8 floors Highways & Rural Works Division, Govt. of Tamil Nadu, Thiruthuraipoondi, Tiruvarur district (1st - 18th May'11)					
				tical pile load (Kentledge) test, laying bituminous roads, raft/pile foundation constr				
Interi	nships							
•				ovt. of Tamil Nadu, at Aliyar Nagar, Coimbatore district (19th May -19th)				
			Project: Repair and rehabilitation of Contour canal with multiple tunnels in Indira Gandhi Wildlife Sanctuary and National Park					
			Exposure: Contour survey, relaying concrete canals & tunnels, risk assessment, and policies for construction in reserved forests M/s. Larsen & Toubro Limited, ECC Division, GIDC PCPIR (SEZ), Dahej, Bharuch, Gujarat (20th May -6th Jul'13)					
			M/s. Larsen & Toubro Limited, ECC Division, GIDC PCPIR (SEZ), Dahej, Bharuch, Gujarat (20th May -6th Jul'13) Project: Construction & commissioning of Dahej water supply from Narmada River to Gujarat Industrial Development Corporation					
		· ·	Fynosure: Well-foundation nine (1.83mh) laying testing large ground-level reservoir (25&50MGD) construction					

Exposure: Well-foundation, pipe (1.83mφ) laying, testing, large ground-level reservoir (25&50MGD) construction

	PR	OFESSIONAL EXPERIENCES (cont)					
		s/ Water and Renewable Energy Independent C					
Company	Aided team lead in monitoring, auditing, and reviewing financial operations for 800+ water-related projects India and International						
L&T ECC Senior Engineer	Strategic assessments on quantitative, qualitative & financial processing tracking key performance indicators execution						
Semoi Engineer	Organizing & participating in high-level multi-tire financial meetings, extensive competitor analysis in tendering & bidding Fostering effective project management, decision-making, and identification of futuristic water-related businesses/projects						
Asst. Professor	Specialization: Construction Techno		(12thDec'24-Present)				
NIT Karnataka		als and Construction, Introduction to Design Thin					
	Specialization: Construction Techno		(9thNov'23-6thDec'24)				
Contract Faculty		onstruction Technology and Management progr					
NIT Trichy	Engineering, NIT Tiruchirappalli, Trichy PG Courses: Construction Contracts and Specification, Construction Methods and Equipment, Advanced Concrete Technology, Construction Management Software Laboratory						
	Pedagogy: Teaching Learning Assist		(1-3 rd Apr'16)				
	Completed training on TATP organized and conducted Teaching Learning Centre						
Special	Mechanical Testing of Materials using Zwick (27th Jun'17)						
Professional		Zwick-50 KN UTM, MPCEM Laboratory Dept. of					
Training	Transmission Electron Microscopy ((24-28th Oct'17)				
IIT Madras	X-ray diffraction (Bruker's D8 Disco		(20-22 nd Dec'17) (2-6 th Jul'18)				
	Scanning Electron Microscopy (Quanta 200 FEG SEM) (2-6th Jul'18) Sample preparation & handling, instrument operation, analysis in software Dept. of Metallurgical and Materials Engineering						
	Patent search/patent strategy/patent analytics Orbit & XLPAT-Novelty Checker (19th Sep'19)(6th Feb'21)(20th Mar'21)						
		t, analytics, novelty check Orbit express & intellig					
		s experimental setups, performing the experiment	t, data analysis, documentation of report and				
		istants for Govt. of India, Ministry of Mines	NI CH CARD (2017 10)				
Research		als for pebbled using overburden/ Ash materials, ate for coarse aggregate (Project cost: INR.1.78Cr					
Assistant	Collaborative research on Autoclave		(2016-18)				
		ernary, and ternary mixes to maximize AAC with					
		ents, admixtures, and superplasticizers on fresh ar					
		r fellow research scholars across departments					
		ning Electron Microscopy (July-Nov 2018) Transi actical Transmission Electron Microscopy grad					
		ding guidance for carrying out material-specific s					
Teaching Assistant	Providing demo cum hands-on training sessions for handling CM 12 TEM instrument						
Assistant		CE3410 (B.Tech.), CE5090 (M. Tech, M.S. and Ph.D.) Construction materials laboratory (9 sem _s)(Jul'15-May'18)(Jul'19-May'20)					
	Explaining, demonstrating, and providing guidance in conducting a laboratory experiment						
			nent				
	Preparing lab schedule, experimental	setup, report evaluation, preparing end semester	nent				
Journal reviewer	Preparing lab schedule, experimental		nent r question papers & evaluating answers (2023 onwards)				
Journal reviewer	Preparing lab schedule, experimental Journal of Building Engineering Research Affairs Council (RAC)	setup, report evaluation, preparing end semester POSITIONS OF RESPONSIBILITY	r question papers & evaluating answers (2023 onwards) (2 sem _s)(Jul'15-May'16)				
Journal reviewer	Preparing lab schedule, experimental Journal of Building Engineering Research Affairs Council (RAC) Active participation in the design team	setup, report evaluation, preparing end semester POSITIONS OF RESPONSIBILITY n of RAC for designing posters, flyers, placement	(2023 onwards) (2 sem _s)(Jul'15-May'16) profiles, academic yearbook				
Coordinator	Journal of Building Engineering Research Affairs Council (RAC) Active participation in the design team Data acquiring & coordinating for com	setup, report evaluation, preparing end semester POSITIONS OF RESPONSIBILITY m of RAC for designing posters, flyers, placement inpiling institute research scholar yearbook & placement specific placement in the seminary of	(2023 onwards) (2 sem _s)(Jul'15-May'16) profiles, academic yearbook ement profile for the academic year 2016-17				
Coordinator IIT Madras	Journal of Building Engineering Research Affairs Council (RAC) Active participation in the design team Data acquiring & coordinating for com Disaster Management Committee (L	m of RAC for designing posters, flyers, placement inpiling institute research scholar yearbook & placement (DMC)	(2023 onwards) (2 sem _s)(Jul'15-May'16) profiles, academic yearbook ement profile for the academic year 2016-17 (2 sem _s)(Jul'15-May'16)				
Coordinator IIT Madras Institute	Journal of Building Engineering Research Affairs Council (RAC) Active participation in the design tear Data acquiring & coordinating for com Disaster Management Committee (IC) Completed Basic Life Support course Organizing various trainings on Krav	m of RAC for designing posters, flyers, placement in pilling institute research scholar yearbook & placement policy personal Empowerment in Emergency Responsible Mag martial arts, fire extinguishing, and Cardiopu	(2023 onwards) (2 sem _s)(Jul'15-May'16) profiles, academic yearbook tement profile for the academic year 2016-17 (2 sem _s)(Jul'15-May'16) use (PEER) program (22nd Oct'15) ulmonary resuscitation (CPR) procedure				
Coordinator IIT Madras	Preparing lab schedule, experimental Journal of Building Engineering Research Affairs Council (RAC) Active participation in the design tear Data acquiring & coordinating for com Disaster Management Committee (IC) Completed Basic Life Support course Organizing various trainings on Krav Working closely with the National Dis	m of RAC for designing posters, flyers, placement in pilling institute research scholar yearbook & placement policy personal Empowerment in Emergency Responses mag martial arts, fire extinguishing, and Cardiopus saster Response Force (NDRF) and IIT Madras Ho	(2023 onwards) (2 sem _s)(Jul'15-May'16) profiles, academic yearbook tement profile for the academic year 2016-17 (2 sem _s)(Jul'15-May'16) use (PEER) program (22nd Oct'15) ulmonary resuscitation (CPR) procedure				
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Coordinator IIT Madras Institute	Preparing lab schedule, experimental Journal of Building Engineering Research Affairs Council (RAC) Active participation in the design tear Data acquiring & coordinating for com Disaster Management Committee (IC) Completed Basic Life Support course organizing various trainings on Krav Working closely with the National Dispotable water & food packets, setting Safety audits of girls' hostel checking	m of RAC for designing posters, flyers, placement in pilling institute research scholar yearbook & placement in Emergency Responsion Mag martial arts, fire extinguishing, and Cardiopus saster Response Force (NDRF) and IIT Madras Ho up medical camps availability/working of first aid kits, emergency s	(2023 onwards) (2 sem _s)(Jul'15-May'16) profiles, academic yearbook tement profile for the academic year 2016-17 (2 sem _s)(Jul'15-May'16) ase (PEER) program (22nd Oct'15) almonary resuscitation (CPR) procedure spital during Chennai floods supplying sign boards, fire extinguishers, intercoms				
Coordinator IIT Madras Institute	Journal of Building Engineering Research Affairs Council (RAC) Active participation in the design tear Data acquiring & coordinating for com Disaster Management Committee (IC) Completed Basic Life Support course Organizing various trainings on Krav Working closely with the National Dis potable water & food packets, setting	m of RAC for designing posters, flyers, placement inpiling institute research scholar yearbook & placement in Emergency Responsion Mag martial arts, fire extinguishing, and Cardiopus saster Response Force (NDRF) and IIT Madras Ho up medical camps availability/working of first aid kits, emergency sold younteer	(2023 onwards) (2 sem _s)(Jul'15-May'16) profiles, academic yearbook tement profile for the academic year 2016-17 (2 sem _s)(Jul'15-May'16) use (PEER) program (22nd Oct'15) ulmonary resuscitation (CPR) procedure spital during Chennai floods supplying				
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Coordinator IIT Madras Institute student bodies Volunteer Offline	Journal of Building Engineering Research Affairs Council (RAC) Active participation in the design team Data acquiring & coordinating for com Disaster Management Committee (IC Completed Basic Life Support course of Organizing various trainings on Krav Working closely with the National Dispotable water & food packets, setting Safety audits of girls' hostel checking. Indian Concrete Institute (ICI) Fest 20 ICI-IITM National Concrete Canoe Cornel Advanced Concrete Technology Work M.S. and Ph.D. admission assistance International conference (ICACMS) Polytonia (Workshops), department (Clateria) Achieving Durable Concrete Constructions and Constructions (Constructions).	m of RAC for designing posters, flyers, placement inpiling institute research scholar yearbook & place of placement in Emergency Responsions asster Response Force (NDRF) and IIT Madras Ho up medical camps availability/working of first aid kits, emergency schop 2013 volunteer inshop 2015 organizer arious experimental setups and research carried EA fest), institute (Shaastra open house), and occa workshops tion Through Performance Testing Workshop	(2023 onwards) (2 sems) (Jul'15-May'16) profiles, academic yearbook mement profile for the academic year 2016-17 (2 sems) (Jul'15-May'16) ase (PEER) program (22nd Oct'15) almonary resuscitation (CPR) procedure spital during Chennai floods supplying sign boards, fire extinguishers, intercoms (14-15th Mar'13) (21-23rd Aug'15) (29th Nov-4th Dec'15) (12th May'17)(7-9th Dec'17) (5-7th Sep'17) out in IITM Civil-BTCM laboratories, during asional lab tours (3rd Feb'14)				
Coordinator IIT Madras Institute student bodies Volunteer Offline Workshops	Journal of Building Engineering Research Affairs Council (RAC) Active participation in the design team Data acquiring & coordinating for com Disaster Management Committee (IC Completed Basic Life Support course of Organizing various trainings on Krav Working closely with the National Dispotable water & food packets, setting Safety audits of girls' hostel checking. Indian Concrete Institute (ICI) Fest 20 ICI-IITM National Concrete Canoe Cornel Advanced Concrete Technology Work M.S. and Ph.D. admission assistance International conference (ICACMS) Polytonia Concrete Constructive (ICI) Achieving Durable Concrete Constructive Workshop on Limestone Calcined Clay	m of RAC for designing posters, flyers, placement inpiling institute research scholar yearbook & place of place of place of place of the posters of the posters of the posters of the place	(2023 onwards) (2 sems) (Jul'15-May'16) profiles, academic yearbook mement profile for the academic year 2016-17 (2 sems) (Jul'15-May'16) ase (PEER) program (22nd Oct'15) almonary resuscitation (CPR) procedure spital during Chennai floods supplying sign boards, fire extinguishers, intercoms (14-15th Mar'13) (21-23rd Aug'15) (29th Nov-4th Dec'15) (12th May'17)(7-9th Dec'17) (5-7th Sep'17) out in IITM Civil-BTCM laboratories, during asional lab tours (3rd Feb'14) (4th Sep'17)				
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