


FACULTY PROFILE

Name of the Faculty:		Dr. P.Sundara Kumar		
Designation:		Professor & Convener -IQAC		
Department:		Civil Engineering		
Date of Birth:		15.06.1972		
AICTE – ID:	1-4624730534			
Education	<ul style="list-style-type: none"> B.Tech - Civil Engineering from Osmania University - 1997 M.Tech - Water Resources Engineering Specialization from JNTU Hyderabad-2000 PhD - Water Resources Engineering specialization from Andhra University-2017 			
	Teaching: 24 Years	Industry: 1 Years	Total: 25 Years	
	Research: 14 Years	Administration 13 Years		
Research Specialization		Water Resources Engineering		
Courses taught	<ol style="list-style-type: none"> 1. Fluid Mechanics 2. Hydraulics & Hydraulic Machines 3. Water Resources Engineering – I & II 4. Hydraulics Structures design and drawing 5. Irrigation Structures 6. Engineering Mechanics 7. Strength of Material 8. Structural Analysis -I & II 9. Transportation Engineering 10. Surveying 11. Computer Programme - C 			
Research contributions <ul style="list-style-type: none"> Rainfall-Runoff Modelling Reservoir Sedimentation Rainwater Harvesting Irrigation Water Management Rainfall and Streamflow Modelling Surface Water Hydrology and Watershed Management Applications of Soft Computing Techniques In WRM Risk Analysis of Floods and Droughts Remote Sensing and GIS Applications Frequency Analysis of Floods and Droughts. Erosion Modelling Identification of Critical erosion prone areas. 				

International/national peer reviewed journals				
S. No.	Title of paper	Journal	Year	Indexing
1	A Framework for Proposing a Landfill Site in Bapatla by using RIAM	IJARESM	2023	UGC
2	Assessment of Runoff and Sediment Yield using Routing Model	Earth and Environmental Science	2022	Scopus
3	Integrated Approach for The Evaluation of Ground Water Prospects Mapping Using Remote Sensing And Geographical Information Systems	International Journal of Advances in Science and Technology	2021	DOAJ, GeoArchive, eobase, GeoRef
4	Identification of Critical Erosion Prone Areas and Computation of Sediment Yield using Remote sensing andGIS - a Case Study of Sarada River Basin.	Journal of The Institution of Engineers (India): Series A -Springer	2018	SCI
5	Simulation of Sediment Yield over Un-gauged StationsUsing MUSLE and Fuzzy Model	ELSEVIER Science Direct	2018	SCI
6	Artificial Neural Network Model for Rainfall-Runoff -A CaseStudy	International Journal of Hybrid Information Technology(Korea)	2017	Scopus
7	Identification of Critical Erosion Prone Areas using RemoteSensing and GIS: a Case Study of Sarada River Basin	Indian Journal of Science and Technology	2017	Scopus
8	Planning and Estimation of Water Grid in Sub Basin ofGundlakamma River, Andhra Pradesh, India: A ModelStudy	International Journal of Civil Engineering and Technology	2017	Scopus
9	Rainfall-Runoff Modelling using Modified NRCS-CN,RS andGIS -A Case Study	Int. Journal of Engineering Research and Applications	2017	NASA - DOAJ, SCINS
10	A Case Study on Flood Frequency Analysis.	International Journal of Civil Engineering and Technology	2016	Scopus
11	Analysing Delay Factors In Indian Affecting Construction Projects	International Journal of Civil Engineering and Technology	2016	Scopus
12	Eco-Friendly Self Curing Concrete Incorporated withPolyethylene Glycol as Self Curing Agent	International Journal of Engineering (IJE)	2016	Scopus
13	Strength and behavior of high-volume fly ash and replacement of sand by quarry dust	International Journal of Civil Engineering and Technology	2016	Scopus
14	Nonlinear Static Analysis of RC Building Using Isolated	International Journal of Civil Engineering and Technology	2015	Scopus
15	A Report On Partial Substitute Of Cement In Concrete Using Rice Husk Ash	International Journal of Civil Engineering and Technology (IJCIET)	2015	Scopus

16	Influence of Quarry Dust on Compressive Strength of Concrete.	Indian Journal of Science and Technology	2015	Scopus
17	Comparison of Different Methods for Estimating Potential Evapotranspiration in a Regional Area of Andhra Pradesh.	International Journal of Earth Sciences And Engineering	2015	Scopus
18	Determination of Infiltration Parameter Estimation Rates in a Small Region in Andhra Pradesh.	International Journal of Earth Sciences and Engineering	2015	Scopus
19	Determination of Evapotranspiration Relationship For Temperature Based Methods With Penman-Monteith Method For A Regional Area In Andhra Pradesh.	International Journal of Applied Engineering Research (IJAER)	2014	Scopus
20	Simulation of Sediment Yield Over Ungauged Stations Using MUSLE (Case Study Meghadrigedda Reservoir)	International Journal Of Earth Sciences and Engineering	2014	Scopus
21	Simulation Of Rainfall Runoff Using RS And GIS (A Case Study)	International Journal of Earth Sciences and Engineering	2014	Scopus
22	Storm Water Drainage Design (Case Study Vijayawada)	International Journal Of Earth Sciences and Engineering	2014	Scopus
23	Rainfall Runoff Assessment By SCS-CN Method And Frequency Curve And Developing Of Synder's Hydrograph For Budameru River (Case Study)	International Journal Of Earth Sciences and Engineering	2014	Scopus
24	Estimation Of Rainfall- Runoff Of The Vijayawada City By SCS-CS Method Using Remote Sensing and GIS	Indian Streams Research Journal	2014	DOAJ
25	Land Use Land Cover Characteristics By Rs & Gis & Runoff Assessment By SCS-CN Method And Frequency Analysis.	Indian Streams Research Journal	2013	DOAJ
26	Deciding Alternate Crop Pattern in a Watershed of Tadepalli Mandal Using RS and GIS	International Journal of Earth Sciences and Engineering.	2013	Scopus
27	Synthesis of Nano Alumina Reinforced Magnesium-Alloy Composites	International Journal of Advanced Science and Technology (Korea)	2013	EBSCO ProQuest,ULR IC
28	Performance Evaluation of Wastewater Treatment Plant	International Journal of Engineering Science and Technology	2013	GeoArchive, Geobase, GeoRef
29	Simulation Of Runoff In Watersheds Using SCS-CN And Muskingum-Cunge Methods Using RS & GIS	International Journal of Advanced Science and Technology (Korea)	2012	EBSCO ProQuest,ULR IC
30	Analysis of the Runoff for Watershed Using SCS-CN Method and Geographic Information Systems	International Journal of Engineering Science and Technology	2012	GeoArchive, eobase, GeoRef
31	Experimental Studies on Utilization of Murrum as Embankment Material	International Journal of Engineering Science and Technology	2012	DOAJ, GeoArchive, eobase, GeoRef
32	Assessment and Mapping of Ground Water Quality Using Geographical Information Systems	International Journal of Engineering Science and Technology	2011	DOAJ, GeoArchive, eobase, GeoRef
33	Integrated Approach for The Evaluation of Ground Water Prospects Mapping Using Remote Sensing And Geographical	International Journal of Advances in Science and Technology	2011	DOAJ, GeoArchive, eobase, GeoRef

	Information Systems			
34	Experimental Study on Lightweight Aggregate Concrete	International Journal of Civil Engineering Research	2011	EBSCOhost, OOGLE Scholar,
35	Treatment of Synthetic Wastewater containing Phenol, Thiocyanate and nitratenitrogen in Anoxic Fixed film Reactor	Natural Environmental and pollution Technology	2011	Scopus
36	Study And Analysis on Earned Value Management System In Construction Industry	International Journal of Civil Engineering and Technology (IJCIET),	2010	Scopus
37	Evaluation of Ground Water Quality in and Around Area of Bapatla using GIS Technique	International Journal of Engineering Research & Technology- IJRET	2010	Google scalar

Book chapters Published

S.No.	Title of the Chapter	Book title	Publisher	year
1	Assessment of Runoff and Sediment Yield using Routing Model	ISTCE 2021	I OP Publications	2021
2	Assessment of Runoff and Sediment Yield of using Routing Model with Remote Sensing and GIS Techniques	ICGPTPG-2019	BS Publications	2019
3	Rainfall Runoff Modelling Using Fuzzy Logic and Modified NRCS-CN Methods	HYDRO 2016 International	CWPRS	2016
4	Simulation of Sediment Yield Using Routing Model with Remote Sensing and GIS Techniques	HYDRO 2016 International	CWPRS	2016
5	Simulation of Sediment Yield over Un-gauged Stations Using MUSLE and Fuzzy Model	Water Resources, Coastal and Ocean Engineering. International Conference. 2015. (ICWRCOE'15)	Elsevier Procedia	2015
6	Deciding Alternate Crop Pattern in a Watershed of Tadepalli Mandal using RS and GIS	Earth Science and Engineering	CAFET	2011
7	Analysis of the Rainfall Runoff Modelling for Watershed Using SCS-CN, Artificial Neural Networks Methods and Geographic Information Systems	International Conference on Civil, Structural and Environmental Engineering Presented at International level Conference	ICSEE-11	2011
8	Water Management in Visakhapatnam City and Surrounding Areas	Recent Advances in Civil Engineering Research	Kurpagam University, Coimbatore	2010
9	Application of RIAM to Environmental Impact Assessment of a proposed Municipal Solid waste Disposal project City	Recent Advances in Civil Engineering	Kurpagam University, Coimbatore	2010
10	Integrated Watershed Management - Neerukoda Village	Sustainable Water Resources Management and Impact of Climate Change	BS Publications	2010
11	Experimental Study on Dam Breach	Research Civil Engineering'09: (RCE09)	IIT Madaras	2009

Details of Patents

S. No.	Applications number	Title of the patent	Date of filing/publishing	Published/granted
1	202141031030A	Teachable Oxygen Flow Control and Monitoring System	10-07-2021	Published

Details of Conferences/FDPs/STTPs/webinars/Workshops Organized

S.No.	Name of the event	Role	Dates
1	AI Tools for Educators in alignment with OBE	Coordinator	20th -25th November, 2023
2	SSR – DVV Review Process	Coordinator	28th January 2023
3	Outcome Based Education and Examination reforms (OBE&ER-2022)	Coordinator	03rd – 05th August 2022
4	Technical education – The Challenging Landscape	Coordinator	27th August 2022
5	New Education Policy -NEP	Coordinator	30th July to 10th August 2021
6	Quality Improvement via Accreditation and Ranking (QIAR)	Coordinator	28th -29th Jun 2021
7	on Water Distribution Networks Models Using EPANET	Coordinator	19 th June 2020
8	Role of Engineer in Road Safety	Coordinator	8 th September 2018

Details of Conferences/FDPs/STTPs/webinars/Workshops Participated

S.No.	Name of the event	Organized by	Dates
1	National Level -FDP: ChatGPT & AI Tools for Educators, in-line with OBE	St. Joseph's College (A), Irinjalakuda Kerala State Higher Education Council	19th – 26th July 2023
2	National workshop -Environment conservation	SCRS Government College, Madhopur	5th June 2023
3	e- National level -FDP: Outcome Based Education	Auxilium College Vellore in association with ipsr solutions limited	22nd -27th November 2021
4	International Conference on "Innovative and Sustainable Technologies in Civil Engineering (ISTCE-2021)"	Bapatla Engineering College	24 th - 25th September 2021
5	International Conference - Assessment of Runoff and Sediment Yield of using Routing Model with Remote Sensing and	SV University College of Engineering, Tirupati	9th -21st December, 2019

	GIS Techniques.		
6	International Conference on Hydraulics, Water Resources, Coastal & Environmental Engineering (HYDRO 2016 International)	CWPRS, Pune	December 8 th -10 th 2016.
7	International Conference on Civil, Structural and Environmental Engineering Presented at International level Conference (ICSEE-11)	K. S. R. College of Engineering, Tiruchengode, Tamilnadu	Feb 18th and 19th, 2011
8			
9	Recent advancements in Civil Engineering	GMRIT Civil Engineering Department between	12th -17th July 2021
10	Webinar -DVV process of NAAC	MasterSoft ERP solutions Pvt.Ltd. Nagpur	17th July 2021
11	Workshop: Examination Reforms Organized by All India Council for Technical Education (AICTE)	AICTE- New Delhi	8th-10th July 2021
12	International Conference : Innovative and Sustainable Technologies in Civil Engineering (ISTCE-2021)	Bapatla Engineering College	24 th - 25th September 2021.
13	FDP: Research Trends in Civil Engineering (RTCE 2021)	Kallam Haranadhareddy Institute of Technology	24 th June 2021
14	Faculty Development Program (FDP) on " Offshore Renewable Energy	Bapatla Engineering College	29-30 Jun, 2021
15	Webinar: Environmental Issues and Role of Geotechnical Engineer	Bapatla Engineering College, Department of Civil Engineering	26-Jun-2021
16	Workshop: NAAC Assessment and Accreditation: A Step by step Process	Chadalwada Ramanamma Engineering College	27 - 29 May, 2021
17	Webinar: NAAC Accreditation frame work of NAAC2020: The Practice of quality initiatives by IQAC for the quality enhancement In HEI's	Vigan Institute of Information Technology	14 -15 May, 2021
18	Workshop: Sustainable Engineering Series (SES)	Association of Engineers(I), Bangalore	26.09.2020 to 28.10.2020
19	Awareness Webinar on Outcome Based Education and Accreditation (OBE&A)	New Delhi in association with Jawaharlal Nehru Technological University, Hyderabad	25 th November.2020.
20	STTP -outcome based education for technical Institutions -Phase III	AICTE	10 -16 Dec 2020
21	STTP -Outcome based education for technical Institutions -Phase II	AICTE	16th to 21th Nov 2020
22	FDP: NBA Accreditation and SAR preparation for Engineering Institutes	NITTR - STTP	07- 11 Sept.,2020
23	Conference: Recent Modelling	Osmania University	17 - 21 August,

	Approaches in Water Resources Engineering" (RMAWRE-2020).		2020.
24	Seminar: Incorporating Universal Human Values in Technical	AICTE	28 July to 01 August 2020
25	Seminar: NAAC Assessment and Accreditation process	NAAC, Bangalore	28 July 2020
26	International Conference: Climate Change Impact on Water Resources Management and Environment	Andhra University, Visakhapatnam	15 July to 19 July 2020.
27	FDP: Remote Sensing in Crop Management and Assessment	Indian Institute of Remote Sensing (IIRS) , ISRO	19 May to 09 Jun 2020.
28	Seminar: Emerging Trends – Civil Engineering	KL University	, 26 th - 27 th Jun, 2020
29	Seminar: A feasible Retrofitting Solution to the soft-storey Problem in Reinforced concrete Buildings" -Socio Technical Approach	Department of Civil Engineering, Bapatla Engineering College, Bapatla.	18th June 2020
30	Webinar: Emerging Trends and Challenges in Construction Projects	Department of Civil Engineering, Bapatla Engineering College, Bapatla	09 June 2020
31	Webinar: Low carbon cements - Sustainable Construction Materials	Department of Civil Engineering, Bapatla Engineering College, Bapatla	08 June 2020
32	Webinar: Workflow on sewage System design and Modelling	Ministry of Jai shakthi, Govt. of India	May 26, 2020.
33	FDP: Recent Advances in Civil Engineering	Department of Civil Engineering, CMR Institute of Technology, Hyderabad.	20 th - 22 nd May 2020,
34	FDP: Innovation to Academicians -DST	Ramachandra College of Engineering, A.P.	11th - 16th May 2020
35	Webinar: Performance of High strength of Concrete	Indian concrete Institute, Bangalore centre	12th May 2020
36	Workshop: Intellectual Property and Innovation Management in Higher Educational Institutions	Bapatla Engineering College, Center for Continuing Education, Bapatla	31 st August and 1 st September, 2018
37	FDP: Geospatial Technologies	KLEF, Department of Civil Engineering	20 th – 30 th March 2018.
38	Workshop: Best Practices in Civil Engineering	AP HRDI, Bapatla	17th – 19th July, 2017
39	Seminar: Neeru Pragath	Acharya Nagarjuna University, Guntur	8 th May 2017.
40	Workshop: Quality Assurance In Higher Education Institutions" (QAHEI – 2017)	KL University, Guntur,	20 th – 28 th January 2017.

41	Seminar: Engineering Building with Nature	AP HRDI, Bapatla	27 th -29 th September 2016.
42	Seminar: Environmental Impact Assessment (NWEIA.	KL University	19 th – 20 th April, 2016
43	Workshop: Emerging Trends in Construction and Structural Design Practices (ETCSDP-16)	KL University	19 th – 20 th December 2016
44	Webinar: Advances in Water Resources Engineering" (AWARE – 2015	RVR & JC College of Engineering	26 th September 2015.
45	Webinar: Planning and Construction of Highway Bridges and Pavements	KI University.	21 st , September, 2015
46	International Civil Engineering Symposium (ICES'14)	VIT University, Vellore	14 th – 16 th March, 2014
47	FDP:Remote Sensing and GIS Applications in Earth Sciences	held at Indian Institute of Science Bangalore (IISc)	15 th -20 th November, 2010
48	short term program on Effective Teaching as part of the 2010 Indo-US Engineering Faculty Leadership Institute	KI University.	July 7 th – 8 th 2010
49	Conference: Water Resource Management (WRM – 2007)	JNTU, Hyderabad college of Engineering	27 th – 28 th August, 2006

Awards/recognitions/achievements

S.No.	Name of the Award	Awarding body/Society/Organization	Year
1	Global Eminent Research Award	Vij Trust, Thirunindravu, TN	2022
2	Best Research Paper award	S.V. University, Tirupathi	2019
3	Best Teacher award	KL Deemed to be University	2017
4	Best Performance award (H&HM)	KL Deemed to be University	2015
5	Best Teacher award	KL Deemed to be University	2014
6	Best Teacher award	KL Deemed to be University	2012
7	Best Performance award (FM)	KL Deemed to be University	2011
8	Best Teacher award	KL Deemed to be University	2010
9	Best Teacher award	KL Deemed to be University	2008
10	BOS Member	MVR Engineering College, Krishan Dist.	2020 -till
11	Subject expert member on the Evaluation of internal Research Projects	R.V.R.&J.C. College of Engineering	2019
12	College Coordinator – Outreach Programme	Indian Institute of Remote Sensing - Indian space Research Organization (ISRO)	2019-2024
13	Session chair	- National Conferences on Emerging Trends, KL University	20220
14	Delivering the expert session	FDP- Kallam Haranadha reddy Institute of Technology, Guntur	2021
15	NPTEL certification course (Elite) NBA Accreditation and Teaching and Learning in Engineering (NATE	Indian Institute of Science Bangalore	2023
16	Guest Speaker	St.Mary's Women's Engineering College, Guntur	2023
17	Guest Speaker	Bapatla Women's Engineering College, Bapatla	2023
18	Coordinator -ATAL FDP 2023-24	Sanctioned -AICTE Rs. 350000	2023
19	Resource Person	One day webinar, KL University	2023

Details of project proposals submitted/sanctioned/completed.

S.No.	Title of the Project	Funding body	Submitted/ Completed	Amount Lakhs	Year
1	AI Tools for Educators in alignment with OBE	AICTE	Completed	3.50	2023
2	Design and Development of A Real Time Model to Predict Runoff and Sediment Yield by Integrating IoT and Satellite Image using Artificial Intelligence Approaches	IRHPA -File no IPA/2021/000105	Submitted	54.64	2022

Student Project/research guidance

S.No	Level	Total number
1	UG	Completed: 45 Ongoing: 02
2	PG	Completed: 09 Ongoing: 00
3	PhD	Completed: 00 Ongoing:00

Administrative experience

S.No.	Role	Duration
1	Convener -IQAC -BEC	2019-till date
2	NAAC Coordinator - BEC	2022-2024
3	NAAC - Institute level committee member -BEC	2022-2024
4	Coordinated for obtaining NAAC A ⁺ Grade	2022-2023
5	Coordinated for obtaining Times Engineering Institute Rating	2023
6	Coordinated for obtaining OBE Ranking -2023	2023
7	NBA-Institute level committee member-BEC	2023-2024
8	NBA – Department Expert member-BEC	2003-2024
9	Convener -R&D -BEC	2018-2019
10	NAAC - Mentor and Advisor, APSCHE	2023 -till date
11	Institute level -In charge -ISO -BEC	2019- till date
12	Academic audit in charge- Institute level -BEC	2019 -till date
13	Associate Dean P&D -KLU	2016-2017
14	Exam Section in charge -KLU	2014-2016
15	Research Coordinator -KLU	2014-2016
16	HoD-CE, Vigan's Deemed to be University	2010-2011

Research credentials

Index/database	ID/Link
Google Scholar	https://scholar.google.co.in/citations?user=ItloRA4AAAAJ&hl=en
SCOPUS	https://www.scopus.com/authid/detail.uri?authorId=56748023000
Vidwan ID	https://vidwan.inflibnet.ac.in/profile/451951/NDUxOTUx

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