

FACULTY PROFILE

1. Name : Dr. SWETHA LANKA
2. Designation : Associate Professor
3. Department : First Year Department
4. Date of Joining : 07-10-2014
5. Nature of Employment : Regular
6. Date of Birth : 15-06-1986
7. Unique ID (AICTE FID) : 1-2388354534
8. Email : swethadeepukomma@gmail.com
9. Phone : 9291482939



10. Address for communication: Dr. SWETHA LANKA, W/O K. Anil Kumar,
H.N0: 10-84, Near Hanuman Temple, Vatluru,
Eluru Dist, A.P, Pin:534007

11. Educational Qualifications:

Qualification	Institute	University/ Board	Specialization	Year of Passing	Division/ Class
Ph.D	K L University, Guntur	K L University	Fluid Dynamics	2024	Awarded
B.Ed	Sir C R R College of Education, Eluru	Andhra University	Mathematics	2009	First Class
PG	Sir C R Reddy PG College, Eluru	Andhra University	M.Sc (Mathematics)	2008	First Class with Distinction
UG	Sir C R R College for Women, Eluru	Andhra University	B.Sc (Mathematics, Physics, Chemistry)	2006	First Class
Inter/Diploma	Vidhya Vikas Junior College, Eluru	Board of Intermediate Education	Mathematics, Physics, Chemistry	2003	First Class
SSC	Kasturiba MPL High School, Eluru	Board of Secondary Education	Mathematics	2001	First Class

12. Work Experience:

Teaching: 11Years 4months Research: -- Industry: -- Total: 11Years 4months

Name of the Organization	Designation	Date From	Date To
Sir C.R.R. College of Engineering, Eluru	Assistant Professor	07-10-2014	Till date
Abinav Hi-Tech College of Engineering and Technology, Hyd	Assistant Professor	02-11-2009	30-08-2011

13. Courses taught:

S.No.	Name of the subject	UG/PG
1	Mathematics - I	UG
2	Mathematics – II	UG
3	Mathematics – III	UG
4	Mathematics - IV	UG
5	Probability & Statistics	UG
6	Aptitude	UG

14. Administrative Responsibilities:

S.No.	Description	College/ Department level
1	Discipline Committee	Department Level
2	Feed Back & Counselling Committee	Department Level
3	Result Analysis Committee	Department Level
4	Result Analysis Committee - NBA	College Level
5	NAAC	College Level

15. Research Guidance: Nil

M.Tech.		Ph.D.	
Completed	Ongoing	Completed	Ongoing
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16. Research Publications in Journals (National/International):

S.No.	Author(s) Name	Title of the Paper	Name of the Journal	National/ International	Month & Year	Volume, Issue No, Page Nos	UGC/ Web of Sciences/ Scopus/ SCI/Other s
1.	Swetha Lanka, S.V. Subrahmanyam, D. Prasad	Lubrication of Asymmetric Rollers considering viscosity as function of mean temperature	IJAME	International Journal	June, 2023	Vol 28, Issue 2, PP: 49-63	Scopus
3.	Swetha Lanka, S.V. Subrahmanyam, D. Prasad	Thermal Effects in Lubrication of Asymmetric Rollers using Roelands Viscosity-Pressure Equation including Convection	IJHT	International Journal	June, 2023	Vol 41, Issue 3, PP 701-708	Scopus and Web of Science
4.	Swetha Lanka, S.V. Subrahmanyam, D. Prasad	Lubrication of Asymmetric Rollers using Roelands Viscosity – Pressure – Temperature Relationship	FHMT	International Journal	October , 2023	Vol 21, PP:385-405	Scopus and Web of Science

5.	Swetha Lanka, S.V. Subrahmanyam, D. Prasad	Non-Newtonian Fluid Film Lubrication of Asymmetric Rollers using Vogel Viscosity- Temperature Relationship	JARFM TS	International Journal	Dec, 2023	Vol 110, Issue 2, PP: 32-48	Scopus
6.	Revathi Gademsetty Venkata Subrahmanyam Sajja, Swetha Lanka, Dhaneshwar Prasad	Thermohydrodynamic Lubrication of Asymmetric Rollers by Bingham Plastic Fluid	Solid State Techno logy	National Journal	August, 2020	Vol 63, Issue 5, 6165-6181	Google Scholar
	Swetha Lanka, S.V. Subrahmanyam, D. Prasad	Hydrodynamic lubrication of asymmetric rollers by power-law fluids	IJET	International Journal	March, 2020	Vol 11, Issue 2, PP:948-953	Scopus
7.	L. Swetha & S. Ravi Kumar	A Review on Fuzzy Set Theory and its Operations	IJATE T	International Journal	August, 2017	Vol 4, Issue 21, PP:74-79	UGC
8.	L. Swetha & D. Saraswathi	Data Security Using Modular Operation: A Number Theoretic Transform	BOMS R	International Journal	March, 2017	Vol 5 Issue 1, PP:100-101	UGC

17. Research Papers in Conferences (National/International):

S.No.	Author(s) Name	Title of the Paper	Name of the Conference/Journal	National/ International	Month & Year	Page Nos
1.	Swetha Lanka, S.V. Subrahmanyam, D. Prasad	Non-Newtonian Fluid Film Lubrication of Asymmetric Rollers Using Vogel Viscosity- Temperature Relationship	3 rd International Conference on Recent Trends in Applied Mathematics with Computing, K L University, Guntur	International Conference	December , 2023	---
2.	Revathi Gademsetty Venkata Subrahmanyam Sajja, Swetha Lanka, Dhaneshwar Prasad	Thermohydrodynamic Lubrication Analysis of Asymmetric Roller Bearings Including Convection	Advances in Mathematical Sciences and its Applications, ANU, Nagarjuna Nagar	National Conference	March, 2023	---
3.	Swetha Lanka, S.V. Subrahmanyam	Squeeze Film Lubrication of Asymmetric Rollers Using Roelands	2 nd International Conference on Essence of Mathematics and Engineering	International Conference	December, 2022	---

		Viscosity-Pressure-Temperature Relationship with Convection	Applications, K L University, Guntur			
4.	Swetha Lanka, S.V. Subrahmanyam, D. Prasad	Lubrication of Asymmetric Rollers considering viscosity as function of mean temperature	International Conference on Mathematics & its Relevance to Science and Engineering, Osmania University, Hyd	International Conference	March, 2022	---
5.	Swetha Lanka, S.V. Subrahmanyam, D. Prasad	Hydrodynamic lubrication of asymmetric rollers by power-law fluids	National Conference on Essence of Mathematics and Engineering Applications, K L University, Guntur	National Conference	December, 2018	---
6.	L. Swetha & S. Ravi Kumar	A Review on Fuzzy Set Theory and its Operations	International Conference on Recent Advancement in Technical Fields of Computer Science and Mathematics, CH.S.D.ST Theresa's Autonomous College for Women, Eluru	International Conference	August, 2017	---
7.	L. Swetha & D. Saraswathi	A Review on Data Security Using Modular Operation: A Number Theoretic Transform	National Seminar on Emerging Trends in Mathematics, Sir C R Reddy Autonomous College, Eluru	National Seminar	December, 2016	---
8.	Swetha Lanka	Mathematical Modeling - Sciences	National Workshop on Applications of Differential Equations, CH.S.D.ST Theresa's Autonomous College for Women, Eluru	National Workshop	December, 2015	---

18. No of Books Published: Nil

S.No.	Author(s) Name	Title	Publisher	ISBN	Year of Publishing
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19. Workshops/ FDPs/STTPs /etc., (Organised): Nil

S.No.	Name of the Workshop/ FDP/STTP/ etc.,	Place	Period	
			From	To
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20. Workshops/ FDPs/STTPs/ etc., (Attended):

S.No.	Name of the Workshop/ FDP/STTP/ etc.,	Place	Period	
			From	To
1	International Workshop on “Advanced Trends in Computational Mathematics”	K L University, Guntur	04-08-2023	05-08-2023
2	A three-day FDP on “Mathematical Analysis of Fluid Transfer Mechanism and Study of Seismic Wave Behavior “	Vellore Institute of Technology, Chennai	19-06-2023	21-06-2023
3	One Week FDP on “Mathematics and its Applications in Technology & Science”	Madanapalle Institute of Technology & Science, Madanapalle	05-06-2023	09-06-2023
4	Virtual Workshop on” MATLAB FOR ENGINEERS”	Easy Solve PVT.LTD, Virtual Workshop	27-09-2020	01-10-2020
5	National Level 5-Day FDP on “Emerging Trends in Mathematical Modeling Using Python Programing”	CMR Institute of Technology, Hyd	07-08-2020	11-08-2020
6	A Three day STTP on” MATLAB and MATHEMATICA for Scientific Research”	Arul Anandar College, Madurai	27-07-2020	29-07-2020
7	International Online FDP on “Mathematical Sciences”	Vignan’s Foundation for Science, Technology & Research, Guntur	18-07-2020	24-07-2020
8	One Week Online International FDP on “Importance of Mathematics in Science and Technology”	GMR Institute of Technology, Kakinada	25-06-2020	29-06-2020
9	One day National Webinar on “Writing Good Technical Paper: A Necessary Skill Development”	K L University, Guntur	30-05-2020	---
10	A 5-day Online International FDP on “Online Teaching Tools for Video Lecturing and Digital e-Learning”	Sir C R R College(Aided & Autonomous), Eluru	04-05-2020	08-05-2020
11	One day National Workshop cum hands on training on “R Programming & Statistical Techniques”	K L University, Guntur	13-12-2019	---

21. Sponsored Projects: Nil

S.No.	Title	Sponsored by	Amount	Period	Ongoing/ Completed
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22. Consultancy Projects: Nil

S.No.	Title	Agency	Amount	Period	Ongoing/ Completed
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23. No of Patents (Filed/Granted):

S.No.	Title	Application Number	Year	Filed/Granted
1	Fluid Dynamic Melted Aluminium Refinement in A Designed Furnace Through A Mathematical Model	202241041907	2022	Filled Publication
2	A Self Induced Laser MHD For Operating Turbocharged Gas Turbine Engine	202441015699	2024	Filled Publication

24. Awards/Honours Received: Nil

S.No.	Award Name	Awarded by	Contribution	Date Received
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25. Professional Memberships:

S.No.	Name of the Professional Body	Membership No.	Membership Type
1	APTSMS (Andhra Pradesh and Telangana Society for Mathematical Sciences)	1382	Life Member
2	IAENG (International Association of Engineers)	319403	Life Member

26. Membership in BOS/ Editorial Boards: NIL

S.No.	Name of the University/ Journal	Member/ Editor/ Reviewer	Period
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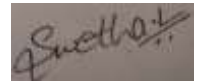
27. Details of Personal Blogs/ Educational Youtube Channels/ e content (if any):

CRRCE2YSEC1

28. Details of Innovative Design/ Development of Product or Model (if any): Nil**29. Technology Transfer: Nil****30. Special Achievements (If any): Nil**

31. Personal Details:

(a) Father's Name : L. SUBRAHMANYESWARA RAO
(b) Mother's Name : L. SRIDEVI
(c) Gender : FEMALE
(d) Marital Status : MARRIED
(e) Religion : HINDU
(f) Nationality : INDIAN

A small, dark, rectangular image containing a handwritten signature in black ink. The signature is cursive and appears to be the name 'S. Subrahmanya Rao'.

Signature