

FACULTY PROFILE

1. **Name** :Vattikonda Ranjith Kumar
2. **Designation** :Assistant Professor
3. **Department** :ECE
4. **Date of Joining** :29.08.2012
5. **Nature of Employment** :Regular
6. **Date of Birth** : 11.01.1987
7. **Unique ID (AICTE FID):** 1-1371846679
8. **Email** : ranjith1029@sircrrengg.ac.in
9. **Phone** : +91-9492959575
10. **Address for communication:** FLAT NO:201, SATYACHANDRA RESIDENCY
ELURU, WEST GODAVARI DISTRICT,
ANDHRA PRADESH



11. Educational Qualifications:

Qualification	Institute	University/Board	Specialization	Year of Passing	Division/Class
Ph.D.	Gitam Institute of technology	GITAM Deemed to be University	Bio-MEMS	Pursuing	-
M.Tech	Gitam Institute of technology	GITAM Deemed to be University	Electronic Instrumentation	2011	Distinction
B.Tech	CVR College of Engineering	JNTUH	EIE	2009	Second class
Inter/Diploma	Sri Chaitanya Junior College, Vijayawada	S.B.T.E	MPC	2004	First class
SSC	Sri Vivekananda Vidyanikethan, Khammam	SSC	-	2002	First class

12. Work Experience:09 Years

Teaching:09

Research:

Industry:

Total:09

Name of the Organization	Designation	Date From	Date To
Sir CRR college of Engg, Eluru	Assistant Professor	29.08.12	Till date

13. Courses taught:

S.No.	Name of the subject	UG/PG
1	Electronic devices and circuits	UG
2	Analog Electronic Circuits	UG
3	Switching theory and logic design	UG
4	Electromagnetic field theory and transmission lines	UG
5	Control Systems	UG
6	Industrial Electronics	UG
7	Digital Signal Processing	UG
8	Linear IC Applications	UG

9	Very Large-Scale Integration (VLSI)	UG
10	Advanced Digital Signal Processing	PG

14. Administrative Responsibilities:

S.No.	Description	College/ Department level
1	Member of R&D	Department
2	Member of EHC	Department
3	Counselling Incharge	Department
4	Workshops and guest lectures organizer	Department
5	Anti-Ragging Committee In-charge	Department

15. Research Guidance:

M.Tech.		Ph.D.	
Completed	Ongoing	Completed	Ongoing
02	-	-	-

16. Research Publications in Journals (National/International):

S. No	Author (s) Name	Title of the Research Paper	National / International	Name of the Journal	Month Yr. of Publication	Vol. No. Issue. No. Pages	Scopus /Web of Scinece/ others
1	V.Ranjith Kumar	Design Of Low Power 11 T Sram Using Adiabatic Switching Circuit Design For Low Power Applications	International	Journal of Critical Reviews	2019-20	Vol-7 Issue No-17 Pages-2949-2956	Scopus
2.	V.Ranjith Kumar	Design and Development of Smart Energy Meter for Effective Use of Electricity in IOT Applications	International	IJET (International Journal Of Engineering And Technology)	2017-18	Vol-7 Issue-SP-7	Scopus
3.	V.Ranjith Kumar	A Wireless Sensor With Real Time PQRS Detection for Continuous Heart Beat Monitoring	International	IJEAR	2015	Vol-4 Issue-Spl-1 Pages- 122-125	Others

4.	V.Ranjith Kumar	LabVIEW based Auditorium Monitoring and Control	International	IJEAR	2015	Vol-4 Issue-Spl-1 Pages- 135-136	Others
5.	V.Ranjith Kumar	Design and Simulation of Piezoresistive MEMS Accelerometer	International	IJEAR	2015	Vol-4 Issue-Spl-1 Pages- 122-125	Others

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

S.No	Author (s) Name	Title of the Research Paper	National/International	Year of Publication	Name of the Conference	Pages (PP) Paper Id
1	V.Ranjith Kumar	Mems Sensor For Food Quality And Safety Monitoring	National	2021	NCAIM	33
2	V.Ranjith Kumar	MEMS Sensor for Non - Invasive Screening of Pulmonary Diseases	National	2021	NCAIM	NA
3	V.Ranjith Kumar	Heart Stroke Fore Casting Health Parameters Using Python	International	2019	ICACT 2019	266
3	V.Ranjith Kumar	Piezoresistive Detector for a MEMS Accelerometer Displacement Sensing	National	2010	NCACC	NA

18. No of Books Published: Nil

S.No	Author(s) Name	Title	Publisher	ISBN	Year of Publishing

19. Workshops/ FDPs/STTPs /etc., (Attended):

S.No	Name of the workshop/ STTP	Place	Period	
			From	To
1	Recent Trends in Communications, VLSI & Embedded Systems	SIR CRR COE	27.07.21	31.07.21
2	Bio-Medical Signal Processing and Applications	SIR CRR COE	01.11.2019	14.11.2019
3	Lab VIEW Hands on Training	SIR CRR COE	06.04.2019	09.04.2019
4	Bludroid	SIR CRR COE	07.01.2019	24.01.2019

			08.01.2019	25.02.2019
5	Instructional Design and Delivery System	SIR CRR COE	04.12.2017	09.12.2017
6	ARM and Raspberry Pi	SIR CRR COE	09.10.2017	12.10.2017
7	Arduino programming and Sensor Interfacing	SIR CRR COE	21.09.2017	22.09.2017
			05.10.2017	6.10.2017
			13.10.2017	14.10.2017
8	Arduino programming and Sensor Interfacing	SIR CRR COE	18.01.2017	19.01.2017
			30.01.2017	31.01.2017
			08.02.2017	09.02.2017
9	PLC Programming and SCADA Applications	SIR CRR COE	26.01.2015	03.03.2015

20. Workshops/ FDPs/STTPs/ etc., (Attended):

S.No	Name of the workshop/ STTP	Place	Period	
			From	To
1	Advanced Micro/Nano Sensor Technologies	Online	05.07.21	09.07.21
2	Web Development with Python	Online	27.07.2020	06.08.2020
3	MATLAB Masters	Online	08.06.2020	19.06.2020
4	Working on Arduino UNO /Raspberry PI & Interfacing with LabVIEW	Online	04.06.2020	07.06.2020
5	IoT with Artificial Intelligence	Sir CRRCOE	27.05.2020	29.05.2020
6	Trends in Communication	Sir CRRCOE	26.05.2020	30.05.2020
7	Artificial Intelligence	Sir CRRCOE	22.05.2020	26.05.2020
8	Tools for online class room post COVID-19	Online	18.05.2020	20.05.2020
9	FDP on OBE-NBA Process	NSRIT	15.05.2020	19.05.2020
10	Online Teaching Tools for Video Lecturing and Digital e-learning	Sir CRRCOE	04.05.2020	08.05.2020
11	Sensors and Actuators	IISC, Bangalore	11.07.2019	12.10.2019
12	Training Program on IOT	Thingtronics	11.10.2018	13.10.2018
13	Fabrication Techniques for MEMS based sensors Clinical perspective	IISC, Bangalore	13.07.2018	17.10.2018
14	Introduction to Research	IIT Madras	04.08.2018	14.09.2018
15	MEMS Familiarization Program (NSNST-2018) INUP	IIT Bombay	23.05.2018	25.05.2018
16	Workshop on Micro Sensor Design	Andhra University, Visakhapatnam	22.03.2018	24.03.2018

21. Sponsored Projects:

S.No	Title	Sponsored by	Amount	Period	Ongoing/ Completed

22. Consultancy Projects:

S.No	Title	Agency	Amount	Period	Ongoing/ Completed

23. No of Patents (Filed/Granted):

S.No	Title	Application Number	Year	Filed/ Granted/Published
1	Multimode Real time Data Transmission System for Aqua culture water monitoring – Fishpond automation with all possible communication to farmers	202041046392	06.11.2020	Filed &Published
2	System and method for monitoring insulating oil quality in transformer	202141010932	15.03.2021	Filed &Published
3	Masthyavardhini-Design	344264-001	2021	Filed
4	Sanitizer Free Corona Disinfector-Design – Spikes Destructor	CBR_342262	2021	Filed

24. Awards/HonoursReceived:

S.No	Award Name	Awarded by	Contribution	Date Received

25. Professional Memberships:

S.No	Name of the Professional Body	Membership No.	Membership Type
1	Institute of Electrical and Electronics Engineering (IEEE)	97537213	Annual
2	Institute of Electronics and Telecommunication Engineering (IETE)	M-500582	Life

26. Membership in BOS/ Editorial Boards:

S.No	Name of the University/ Journal	Member/ Editor/ Reviewer	Period

27. Details of Personal Blogs/ Educational Youtube Channels/ e content (if any):

Personal Blog Details:<http://ranjith1029.blogspot.com/>

Linear Control Systems: <https://youtube.com/playlist?list=PLzEXPredAoAu1sFLgzIskyPV4LvCQAIzC>

Linear IC Applications:<https://youtube.com/playlist?list=PLUEnStKU07jKLxR-TIU-Yg5mvF61mHPcZ>

28. Details of Innovative Design/ Development of Product or Model (if any):

- Developed low-cost Fish Pond automation device for Aquaculture, Collaboration with Fisheries Department of Government of Andhra Pradesh. Design patent filed- 344264-001
- Developed payload for ISRO titled “Measurement of progressive magnetic field shift measurement using Hall Sensor” in collaboration with Satellize, Exceed Space, Hyderabad in 2019.
- Developed Sanitizer free Corona disinfectant with sound waves – In house Development – Design patent filed-CBR No: 342262
- Developed “IOT based Pollution Monitoring with customized MMD” – In house Development

29. Technology Transfer: Nil

30. Special Achievements (If any):

31. Personal Details:

- (a) Name of the Father : V.Rama Rao
(b) Name of the Mother : V.Padma Leela
(c) Gender : Male
(d) Marital Status : Married
(e) Nationality : Indian
(f) Passport No : T8366171

V. Ranjith Kumar

Signature