

FACULTY PROFILE

1. **Name** : Dr. I.Hemalatha
2. **Designation** : Associate Professor
3. **Department** : ECE
4. **Date of Joining** : 26-11-2001
5. **Nature of Employment:** Regular
6. **Date of Birth** : 06-03-1975
7. **Unique ID (AICTE FID)** : 1-433735243
8. **Email** : hemacrr2006@gmail.com
9. **Phone** : 9490744914
10. **Address for communication:** D/O I.Kanakeswara Rao, KOVVALI POST, VIA ELURU, W-G-DT-534442



11. Educational Qualifications:

Qualification	Institute	University/ Board	Specialization	Year of Passing	Division/ Class
Ph.D.	Andhra University, COE(A)	Andhra University	Radar Signal processing	2020	
PG	JNTUK	JNTUK	ICS	2002	Distinction
UG	Sir C R Reddy College of engg	Andhra University	ECE	1996	First
Inter/Diploma	St.theresa college	Board of intermediate	M.P.C	1992	First
SSC	A.P.R.G.H.S, Nagireddygudem	Board of secondary education	-	1990	First

12. Work Experience:

Teaching: **Research:** **Industry:** **Total:**

Name of the Organization	Designation	Date From	Date To
Sir C R Reddy College of Engg	lecturer	26-11-2001	30-04-2005
Sir C R Reddy College of Engg	Senior lecturer	1-05-2005	31-05-2006
Sir C R Reddy College of Engg	Assistant Professor	1-06-2006	Till date

13. Courses taught:

S.No.	Name of the subject	UG/PG
1	CMC	UG
2	DC	UG
3	DSP	UG
4	AC	UG
5	LIC	UG
6	Radar Engineering and Navigational aids	UG

7	AEC	UG
8	MP and its applications	UG
8	MP-II	UG
9	E-I	UG
10	Advanced Microprocessor	PG
11	WT and applications	PG
12	CMC	PG

14. Administrative Responsibilities:

S.No.	Description	College/ Department level
1	M.Tech Coordinator	Department level
2	ALUMNI Coordinator	College and Department
3	WPC	College and Department
4	Communications Lab in-charge	Department level
5	NBA Crterion-1 coordinator	Department level
6	College dispenary committee, member	College level

15. Research Guidance:

M.Tech.		Ph.D.	
Completed	Ongoing	Completed	Ongoing
15	-	-	-

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	UG C/ We b of Scie nces / Sco pus/ SCI /Ot hers
1	I.Hemalatha Dr.P.V.Sridevi	Velocity Estimation Of Moving Targets Using Discrete Wavelet Decomposition in SAR Imaging	Biosc.Biotech.Re .Comm and Society of Science and Nature Publication (ESCI)	international	15th April 2020	Vol: 13 No(2) 0974-6455 Special issue pp-00-00	Web of Science s
2	K.Jhansi, 2 Dr. I.Hemalatha	Wheeze detection for respiration sound signals using convoluntional neural networks	Advanced Science Letters	international	2020/ 6	126 1936-7317 1614-1621	Others
3	I.Prathyusha Nimmagadda2 . Hemalatha Inteti	Signal analysis based radar imaging using radar sensor	Pramana Research Journal	international	2018- 2019	Vol: 9 1919-1924	Others
4	P. V. Sridevi I. Hemalatha	The performance comparison between conventional and	"Journal of Science and Technology	international	2018- 2019	4	Scopus

		modified RDA in real time applications”, “Journal of Science and Technology				3 01-13	
5	P. V. Sridevi I. Hemalatha	Optimization of phase response of focus filter in SAR imaging”	International Journal of Advance Engineering and Research Development(UGC)	international	2017-2018/4	Vol: 5 4 1919-1924	UGC
6	P. V. Sridevi I. Hemalatha	A new approach for velocity estimation of moving targets in SAR imaging”	journal of advanced research in dynamical and control systems”, (scopus)	international	2018-19	13 2292-2305	Scopus
7	P. V. Sridevi I. Hemalatha	Autofocus in SAR imaging by using a specially designed polynomial with DW coefficients and phase gradient method	International Journal of Pure and Applied Mathematics(scopus)	international	2017-2018	119 14 1495-1499	Scopus
8	D Sharal, I Hemalatha	Design and Development of Compact and Broadband Coaxially Fed Dipole Antenna Covering 500MHz to 2500MHz	Indian Journal of Science and Technology	international	2016/12	1 9	Other
9	Karimikonda Deepthi, I Hemalatha, PV Sridevi	Velocity Estimation of Moving Targets Using SAR Imaging	IJRCCT	international	2016/11	5 10 533-539	other
10	I. Hemalatha R.Priyalatha	Design of enhanced pulse compression Technique using poly-phase, bi-phase & LEM	IJSETR	international	2015/6	4 13, 2512-2514	other
11	I. Hemalatha P.Jayalalitha	Performance analysis of Target classification in Synthetic aperture Radar (SAR) Images using wavelet and neural networks	IJSETR	international	2015/6	4 13 2512-2514	other
12	I. Hemalatha G.Vijayaraju	An improved and GNSS Patch Antenna Techniques for analysis and estimation of phase centre	IJEER	international	2014/7	2 2348-6988 3	other
13	Ms I. Hemalatha	Implementation of A Suitable Modulation Technique for the detection of a Fast Moving Object	IJECT	international	2014/3	5 2230-9543 SPL-3	other
14	IH Latha SMK Basha, VB Chanda	Estimation of Varying Doppler for Fast Moving Object Using	International journal of system and	international	2012	5 0974-2107 2	other

		Wavelet generated video”, Verify email Email at 4rinceton	Technologies				
15	I.Hemalatha K.Chandrasekara	Performance analysis of energy detection algorithm in cognitive radio	IJERA	international	2012/ 7	2 4	other

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	I. Hemalatha, Aadi Renu Sai	Estimation Of Doppler Frequency With Wavelet Generated Video	2nd NATIONAL CONFERENCE ON "ARTIFICIAL INTELLIGENCE & MACHINE LEARNING"	National	16th - 17th JULY 2021	30
2	P. Ramya I. Hemalatha, P. V. Sridevi, H. Sudhakar	Analogy of Speed Estimation of Moving target Algorithms in SAR Imaging”,	Conference journal of advanced research in dynamical and control systems”	National	2019/4	
3	I.Hemalatha	Estimation of different parameters in cellular communication	ICACT-2019	INTERNATIONAL	2019-/04	122
4	I.Hemalatha	Efficient Key Generation For Exploiting Randomness From Channel Responses For Individual OFDM Sub Carriers	ICACT-2019	INTERNATIONAL	2019-/04	134
5	I.Hemalatha	Real time imaging & signal analysis using radar sensor	ICACT-2019	INTERNATIONAL	2019-/04	253
6	I.Hemalatha P.Jayalalitha	Automatic target detection in SAR images using wavelets and neural networks	Conference Advance in computing technology	National	2015/3	
7	Ms I. Hemalatha	Implementation of A Suitable Modulation Technique for the detection of a Fast Moving Object	Conference NCRRECE	National	2014/1	

18. No of Books Published:

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

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

S.No.	Name of the Workshop/ FDP/STTP/ etc.,	Place	Period	
			From	To
1	Recent trends in Communications, VLSI and Embedded systems(online)	Sir C R Reddy college of ENGG	27-07-2021	31-07-2021
2	Outcome based education(online)	ECE DEPT, Sir C R Reddy College og Engg	25-05-2020	-
3	Three day Hands on Hackathan	Sir C R Reddy college of ENGG	01-03-2019	03-03-2019
4	Design thinking workshop	Sir C R Reddy college of ENGG	21-09-2017	22-09-2017
5	Design thinking workshop	Sir C R Reddy college of ENGG	15-09-2015	16-09-2015

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

S.No.	Name of the Workshop/ FDP/STTP/ etc.,	Place	Period	
			From	To
	MATLAB and simulink in engineering Education	APSSDC online	10-06-2020	11-06-2020
1	Bio-Medical signal processing & Applications”	ECE DEPT, Sir C R Reddy College og Engg	0104-2020	14-04-2019
2	i2E-Enterprenuership Educators	Vijayawada	08-08- 2017	-
3	Advanced Antenna Design	ECE DEPT, Andhra university,	19-10-2016	21-10-2016
4	Matlab for Engineering applications	ECE DEPT, Sir C R Reddy College og Engg	19-08-2016	20-08-206
5	Modern communication systems	KL College of Engineering , GUNTUR	19-03-2007	30-03-2007
6	Instructional Design and Delivery	SIR C R REDDY College of engineering	12-06-2006	17-06-2006

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
1	Smart soilless Forming kit	21848	2020	filed

24. Awards/Honours Received

S.No.	Award Name	Awarded by	Contribution	Date Received

25. Professional Memberships:

S.No.	Name of the Professional Body	Membership No.	Membership Type
1	IETE (Institute of Electronics and Telecommunication Engineering)	F-500548	Fellow of IETE
2	ISTE(Indian Society for Technical Education)	LM 53341	Life member
3	IE(I) (The Institute of Engineers, INDIA)	M-153773-8	Member IE

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): Nil

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

29. Technology Transfer:

1. Guest lectur on modern communications, 2018, SIR C R R College for Women, Eluru.
2. Technical training to stipendary Cadet Trainee PCs (Communications), from 18-01-2018 to 03-02-2018 organised by *Additional Director General of Police*, AP at DTC Pedavegi.

30. Special Achievements (If any):

31. Personal Details:

- (a) Father's Name : I.Kanakeswara Rao
(b) Mother's Name :I. Rani

(c) Gender : Female
(d) Marital Status : Unmarried
(e) Religion : Hindu
(f) Nationality : Indian

I. Hemalatha

Signature