


FACULTY PROFILE

Name of the Faculty:		Dr. KANNEGANTI RAMAKRISHNA				
Designation:		PROFESSOR				
Department:		PHYSICS				
Date of Birth:		23-9-1960				
AICTE – ID:	1-428231618					
Education	<ul style="list-style-type: none"> • Ph. D in Solid State Physics awarded on January 1991, from Banaras Hindu University, Varanasi. • M.Sc in Solid State Physics from Banaras Hindu University, Varanasi. (1981 – 1983). • B.Sc from Nagarjuna University, Guntur], (1977 –To 1980). 					
Experience	Teaching: 33Years	Industry: ---nil		Total: 40 Years		
	Research: 15Years	Others: --- nil				
Research Specialization	SOLID STATE PHYSICS, MATERIALS SCIENCE HYDROGEN ENERGY, SUPERCONDUCTIVITY					
Courses taught	<ol style="list-style-type: none"> 1. Engineering Physics I 2. Material science and Engineering 3. Engineering Physics II 4. Materials Science & Metallurgy 5. Materials Science for Chemical Engineering 6. Waves and Modern Physics 7. Semiconductor Physics and Nano materials. 8. Nanomaterials and technology 9. Optoelectronic Devices and Applications 10. Fiber Optic Communication & engineering 					
Research contributions						
International/national peer reviewed journals						
S. No.	Title of paper	Journal	Year	Volume	pages	Indexing (SCI/WoS/SCOPUS, Google scholar)
1	Investigations on the structural and hydrogenation characteristics of LaNi ₅ , HoNi ₅ , GdNi ₅ , SmNi ₅ , MmNi ₅ , and CFMmNi ₄ . 5AlO. 5 thin films	International journal of hydrogen energy	1985	10	523-529	SCI/WoS/SCOPUS
	On the Correlation Between Hydrogenation and Structural Behaviour of RNi sub 5 Type	Hydrogen Energy Progress VI.	1986	2	943-950	SCI/WoS/SCOPUS

	Storage Materials					
2	Solid state materials for hydrogen storage	Progress in Hydrogen Energy: Proceedings of the National Workshop on Hydrogen Energy, New Delhi, July 4–6, 1985	1987	1	81-110	SCI/ WoS/ SCOPUS
3	Effect of hydrogenation on the electrical resistivity of LaNi ₅ films	Journal of materials science letters	1987	6	15-16	SCI/ WoS/ SCOPUS
4	Electron microscopic studies of local structures of high temperature YBa ₂ Cu ₃ O _{7-x} superconductor	Solid state communications	1988	65	831-834	SCI/ WoS/ SCOPUS
5	Studies on structural characteristics of high T _c superconducting Bi Ca Sr Cu O phases	Solid state communications	1988	68	629-634	SCI/ WoS/ SCOPUS
6	The hydrogenation behaviour of RNi ₅ type materials in thin film and bulk form	International journal of hydrogen energy	1989	14	573-577	SCI/ WoS/ SCOPUS
7	Investigations on the formation of new structural phases through stoichiometric deviations on Y sublattice in Y ₁ Ba ₂ Cu ₃ O _{7±}	Solid state communications	1989	70	651-655	SCI/ WoS/ SCOPUS
8	Electron microscopic investigations of neutron irradiated YBa ₂ Cu ₃ O _{7-x} high temperature superconducting single crystals	Solid state communications	1991	77	259-263	SCI/ WoS/ SCOPUS
9	Electron microscopic observations of Bi and Tl bearing cuprate high temperature superconductors	Bulletin of Materials Science	1991	14	585-592	SCI/ WoS/ SCOPUS
10	Electron microscopic investigations of the as-synthesised and dissociated Y: 124 HTSC phases	Physica C: Superconductivity	1992	192	391-398	SCI/ WoS/ SCOPUS
11	Synthesis, characterization and hydrogenation behaviour of Mg-ξwt.% FeTi (Mn) and La ₂ Mg ₁₇ —ξwt.% LaNi ₅ —new hydrogen storage composite alloys	Journal of alloys and compounds	1992	184	1-9	SCI/ WoS/ SCOPUS
12	On electron microscopic studies of structural characteristics of the Tl(Bi, Pb) Sr Ca Cu O high-temperature	Physica C: Superconductivity	1992	202	327-334	SCI/ WoS/ SCOPUS

	superconductor					
13	STRUCTURAL AND MICROSTRUCTURAL CHARACTERISTICS OF HIGH TEMPERATURE SUPERCONDUCTING CUPRATES IN RELATION	Studies of High Temperature Superconductors: Advances in Research and Applications	1993	11	409-409	SCI/ WoS/ SCOPUS
14	The synthesis and hydrogenation behaviour of some new composite storage materials: Mg-xwt% FeTi (Mn) and La ₂ Mg ₁₇ -xwt% LaNi ₅	International journal of hydrogen energy	1994	19	253-257	SCI/ WoS/ SCOPUS
15	Transmission Electron Microscopic Investigations of Microstructural Characteristics of High Temperature Superconductors	STUDIES OF HIGH TEMPERATURE SUPERCONDUCTORS	1995	1	237-264	SCI/ WoS/ SCOPUS
16	The eminence of copper ions on optical, electrical properties and morphology of B ₂ O ₃ -Bi ₂ O ₃ -Al ₂ O ₃ -MgO glasses	Journal of Non-Crystalline Solids	2021	564	120844-120844	SCI/ WoS/ SCOPUS

Books published

S. No.	Title of the book	Publisher	year
1	A TEXT BOOK OF PHYSICS ,B.Sc (First year)	VIKAS	2001 revised 2005
2	A TEXT BOOK OF PHYSICS ,B.Sc (Second year)	VIKAS	2001 revised 2005
3	A TEXT BOOK OF PHYSICS ,B.Sc (Third year)	VIKAS	2001 revised 2005

Awards/recognitions/achievements

S.No.	Name of the Award	Awarding body/Society/Organization	Year
1	Member, BOS UG	RVR&JC college of Engineering GUNTUR ,A.P	2018 onwards
2	Member BOS UG	MLP Women's Engg College GUNTUR, A.P	2023onwards
3	Reviewer	Manak, INSPIRE NIF ,India	2020 onwards
4	Member BOS	ANU University	2017-19,2021-23

Student Project/research guidance

S.No	Level	Total number
1	M.Phil	Completed: 3 Ongoing: nil

Administrative experience

S.No.	Role	Duration (From – to)
1	HOD, Physics Department	1992-2023
2	Controller of Examinations	2010-2013
3	Dean Student Affairs	2018- JULY2023

Research credentials

Index/database	ID/Link
Google Scholar	https://scholar.google.com/citations?hl=en&user=qnWD7ccAAAAJ
SCOPUS	
Web of Science	
Vidwan ID	

Dr. K.RamaKrishna

14-9-2023