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T.R.R.GOVERNMENT DEGREE COLLEGE :: KANDUKUR
PRAKASAM DISRICT - ANDHRA PRADESH PIN: 523 105

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PERSONAL PROFILE

1	Name	Dr M Ravi Kumar	
2	Designation	Principal	
3	Subject	Physics	
4	E-mail ID	maridinapalli.ravikumar@gmail.com	
5	Contact Number	9440221228	
6	Address for Correspondence	Flat No: 301, Lakshmi Srinivasam Apartment, Sai Nagar, Kovur Road, KANDUKUR, Prakasam Dist- 523 105	
7	Permanent Address	Flat No: 302, Sri Siri Heights, Behind the Registration Office, Ramnagar, ANANTAPUR, Anantapur Dist- 515 001	
8	Educational Qualifications	M.Sc. (1986) M.Phil. (1989) Ph.D. (1993)	
9	Date of joining in Degree College	06-04-1998	
10	Date of joining in the present college (As Principal)	23-01-2020	
11	Total length of service as Lecturer	22 yrs	

Ph.D.

'Opto-electronic, Thermal and Lattice properties of crystalline and non-crystalline aggregates'
[Sri Krishnadevaraya University-Dec 1993]

M.Phil.

'Electrical conductivity behavior of Manganese-Zinc ferro spinals'
[Sri Krishnadevaraya University- Jan 1989]

2. Research Papers published in Refereed /UGC approved Journals :

No. of Papers published in National Journals : **NIL**

No. of Papers published in International Journals : **13**

S. No.	Title of the Paper	Name of the Journal	Vol/Page/ Year of Publication
1.	Interrelations between Structural, Optical, Electronic and Elastic properties of materials	<i>Journal of Alloys & Compounds</i>	473(2009) P-28-35
2.	Coefficient of volume expansion, Thermo acoustic parameters in Polystyrene, Nylon-6 and Teflon in the temperature range 173K and 383K	<i>Asean Journal of Science and Technology</i>	14 (1997) P-1
3.	On the behaviour of Thermo acoustic parameters in liquid crystals	<i>Crystal Research & Technology</i>	31(1996) P-391
4.	Variation of Magnetic Susceptibility with electric polarizability in compound semiconductors and Alkali halides	<i>Journal of Physics and Chemistry of solids</i>	56(1995) P-825
5.	The correlation between average Nuclear Effective charge, Refractive index, Standard Heat of Atomization	<i>Journal of Physics and Chemistry of Solids</i>	55(1994) P-523
6.	Mean Velocities and Lattice energies of some ionic crystals	<i>Acoustic Letters</i>	18(1994) P-31
7.	Thermoacoustical parameters of polymers at low temperatures	<i>Journal of Applied Polymer Science</i>	28(1994) P-1805
8.	Interrelations between lattice energy interionic separation, Lattice energy and plasma energy for Alkali halide crystals	<i>Crystal Research & Technology</i>	28(1993) P-923
9.	Thermo acoustic parameters of some semiconductors	<i>Crystal Research & Technology</i>	27(1993) P-727
10.	Relations between Lattice energy, interionic distance and plasma energy in II-IV Group semiconductors	<i>Journal of Physics & Chemistry solids</i>	54(1993) P-605
11.	Temperature and concentration dependence of Energy gap and Refractive index in certain mixed crystals and semiconductors	<i>Infrared Physics</i>	34(1993) P-103
12.	Studies on the opto-electronic properties of Alkali halides from optical electronegativities	<i>Infrared Physics</i>	34(1993) P-95
13.	Studies on the opto-electronic properties of III-IV and II-VI Group Semiconductors Optical electronegativities	<i>Infrared Physics</i>	34(1993) P-99

Teaching Experience in Govt Degree Colleges: 24 years

Places of working in Govt Colleges

- (i) Govt. College for Men, Anantapur...1998-2008
- (ii) Govt. College for Men, Kadapa...2008-2011
- (iii) KH Govt Degree College, Dharmavaram...2011-2014
- (iv) KSN Govt Degree College(W), Anantapur...2015-2016
- (v) Govt. College for Men, Anantapur...2016-2020

Awards/Honours :

Received **State Best Teacher Award** from the Govt. of Andhra Pradesh for the meritorious services as a teacher in the year 2008

Books published (with ISBN number):

- (i) Question Bank in Physics-Vol-1 (ISBN818180262-4) **Telugu Akademi**, Govt of Andhra Pradesh, Hyderabad (2015)
- (ii) Question Bank in Physics-Vol-II (ISBN818180270-5) **Telugu Akademi**, Govt of Andhra Pradesh, Hyderabad (2016)
- (iii) Unified Physics-1:Mechanics & Properties of Matter (ISBN 976-48-8610496-4) by **Pragathi Prakashan, Meerut** (2016)
- (iv) **IGNOU, NEW DELHI** : Contributed 5 books for *Dairy Technology* course –Physics portion (Vetting) in 2015
- (v) **I Year B.Sc.Physics for S.K.University Distance Education** in 2017
- (vi) **Environmental Studies** for S.K.University Distance Education in 2017

Curriculum development :

- ❖ Designed **curriculum under CBCS pattern for BSc Physics (Conventional courses)** in A.P. [Andhra Pradesh Council of Higher Edn.,] (2020-21 & 2015-16)
- ❖ Designed **curriculum under CBCS pattern for Skill Development Courses in Physics-(i) Solar Physics and (ii) Electrical Appliances** in A.P. [Andhra Pradesh Council of Higher Edn.,] (2020-21)
- ❖ Designed **curriculum under CBCS pattern for Skill Enhancement Courses in Physics** in A.P. [Andhra Pradesh Council of Higher Edn.,] (2021-22)
- ❖ Designed **curriculum under CBCS pattern for New Market Oriented Restructured courses** (Biomedical Instrumentation and Renewable Energy Sources) in BSc Physics (Commissioner of Collegiate Education, Andhra Pradesh) (2016-17)
- ❖ Designed **curriculum under CBCS pattern for BSc Physics** (Conventional courses) in A.P. [Andhra Pradesh Council of Higher Edn.,] (2015-16)
- ❖ Designed **Curriculum for Intermediate Course of Open Schools** [AP Open School Society, AP, Guntur] (2015-16)
- ❖ **Simplification of content** in Intermediate Physics CBSE Text Books: Vol-I & II [Board of Intermediate Education, A.P.] (2015-16)
- ❖ Acted as **Chairman of Board of Studies in Physics** for Sri Krishnadevaraya University from 2013-14 to 2019-20.
- ❖ Acted as **Chairman of Board of Studies in Physics** for Government College (Autonomous), Anantapur from 2013-14 to 2019-20.
- ❖ Acted as **Member of Board of Studies in Physics** for SSBN Degree & PG College, Anantapur from 2013-14 to 2019-20.

- ❖ Acted as **Member of Board of Studies in Physics for IIIT's** in Andhra Pradesh established under Rajiv Gandhi University of Knowledge Technologies(RGUKT) during 2008-10

Academic & Administrative positions held :

- ❖ Acting as **Principal**, T.R.R.Govt Degree College, Kandukur since 23-01-2020.
- ❖ Acted as **Controller of Examinations** at Govt College (Autonomous), Anantapur (2yr)
- ❖ Acted as **Head of the Department of Physics** for 5 yrs

Other Academic achievements :

- ❖ Question Paper setter for **Government Entrance Examinations** (Confidential Assignments by APSICHE, RGUKT)
- ❖ Presented a series of **MANA TV-Live Lectures** for BSc Physics students
- ❖ Contributed **e-lessons in Physics** for AP IIIT's of RGUKT during 2008-09
- ❖ **Organised** a **National Seminar** on *Mathematical Modeling in Physical, Biological and Social Sciences* held at KSN Govt Degree College for Women, Anantapur on 5th & 6th, January 2015
- **Question Paper setter** in B.Sc, Physics for
 - (i) Vikram Simhapuri University, Nellore
 - (ii) Yogi Vemana University, Kadapa
 - (iii) Osmania College(Autonomous), Kurnool ,
 - (iv) SSBN Degree & PG College(Autonomous), Anantapur,
 - (v) Silver Jubilee Govt. Autonomous College, Kurnool,
 - (vi) KVR Govt College (W) (Autonomous), Kurnool
 - (vii) Duvvuru Ramanamma Womens' College, (Autonomous), Gudur
 - (viii) P.R. Govt College for Men(Autonomous), Kakinada
 - (ix) SK University Distance Education, Anantapur
 - (x) Sri Sathya Sai Institute of Higher Learning, Prasanthinilayam
 - (xi) Govt College (Autonomous), Kadapa
- **Membership in Professional Bodies:**
 - (i) Life Member of **Indian Physics Association** ,
 - (ii) Life Member of **The Indian Science Congress Association**,
 - (ii) Life Member of **Indian Red Cross Society**
- Gave **Radio Talks on Popular Science** over AIR, Anantapur FM Radio station
- **Master Resource Person** at the **Orientation Programme to Guide Teachers** of INSPIRE AWARDEES in Anantapur Dist on development of Science Projects in 5th & 6th August, 2016
- **Jury Member** for **District level Science Exhibition & Project Competitions-2016** held at St. Ann's EM High School, Ananathapuram-INSPIRE Award Scheme-Sponsored by SCERT & Dept of Science & Technology on 19-21th, November, 2016.
- **Jury Member** for **District level Science Exhibition-2015** held at St.Vincent De Paul EM School, Ananathapuram-INSPIRE Award Scheme-Sponsored by SCERT & Govt of A.P., on 10-12th, September, 2015

- Acted as **Jury Member** in the **District Level Science Exhibition & Project Competitions-2014 (INSPIRE Award Scheme)** sponsored by the Dept. Science & Technology, Govt of India at RDT High School, Bukkarayasamudram from 23rd-25th Aug, 2014
- Acted as **Jury Member** in the **District Level Children's Science Drama Contest-2014** sponsored by State Council of Educational Research & Technology (SCERT), Govt of Andhra Pradesh on 10th Sept, 2014
- Acted as **Evaluator** in the **22nd National Children's Science Congress-2014** sponsored by A.P.State Council of Science & Technology (APCOST), Govt of Andhra Pradesh on 16th & 17th Nov, 2014
- Acted as **Jury Member** in the **State Level Science Exhibition & Project Competitions-2013 (INSPIRE Award Scheme)** sponsored by the Dept. Science & Technology, Govt of India at Narpala from 27th-29th Dec, 2013

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Dr M Ravi Kumar, Lecturer in Physics receiving State Teacher Award from Hon'ble Chief Minister of Andhra Pradesh on 05-09-2008 at Ravindra Bharathi, Hyderabad

