

VNR VIGNANA JYOTHI INSTITUTE OF ENGINEERING & TECHNOLOGY

KNOWLEDGE ASSET 2022-23

Name: Dr.M.SUMITHRA
Designation: Assistant professor of Physics
Department: H&S
Mail I'd: sumithra_m@vnrvjiet.in



Experience (in years): 19 Teaching: 19 Research: 6
Others(if any, specify):

1. Educational / Technical qualifications:

S.No	Level (UG / PG / Ph.D)	Year of passing	Specialization
1.	B.Sc(OU)	2002	Maths,physics,computers
2.	M.Sc(Nizam college,OU)	2004	Physics(EC)
3.	Diploma(UTL telecom)	2006	Embedded systems
4.	Ph.D(JNTUH)	2018	Physics(Nanotechnology)

2. Teaching and Learning:

2.1. Teaching Interests:

Engineering physics, Applied physics theory and laboratory sessions, Lasers, Quantum mechanics, fiber optic communication, principles of communication, Classical mechanics, statistical mechanics, mathematical physics, electronic devices theory and lab, computational methods using C-language theory and lab, microprocessors theory and lab, nanotechnology.

2.2. Novel Teaching & Learning Techniques adopted:

PPT, Videos, research-oriented Concept maps, group discussion, testing prior knowledge, KWL charts, Think-Pair-Share, latest technology implemented on basic concepts, Match the following

2.3. Involvement in curriculum updating / Design:

- Engineering physics Lab incharge
- Actively participated in admission section

3. Co-curricular and Extra-Curricular Activities

3.1. Interests and Hobbies: Mentoring and counselling students, encouraging students towards research, Exploring new Teaching-Learning Methodologies,

3.2. CCA/ECA Organized:

3.3. CCA/ECA participated:

3.4. Counselling and Mentoring Activity:

3.5. Committees involved in:

Department level: Organising committee in Induction program

Institute Level:

4. Conference / Workshop / Seminar / Guest Lectures :

4.1 Conducted:

4.2 Attended: 7

5. Academic Contribution and Research & Consultancy:

5.1. Invited Lectures:

5.2. Articles / Chapters published in Books:

5.3. Books published as single author or as editor:

5.4. Projects Guided :

a) UG : Internship guided three student

b) PG :

5.5. Research Interests : Nanotechnology, metal nanoparticles, Indian traditional nanomedicine (Ayurveda)

5.6. Ph.D students :

a) Enrolled :

b) Submitted :

c) Awarded :

5.7. Papers published in reviewed journals :

S.No	Title of the Paper	Journal Name Vol.No. PP	ISBN/ISSN No.	Impact Factor/ Citation Index	National/ International
1	Characterization of SnO ₂ Nanoparticles in the traditionally prepared Ayurvedic medicine	Materials Today: Proceedings 2 (2015) 4636 – 4639	ISSN: 2214-7853	3.2	International
2	Morphological change of silver nanoparticles by the effect of synthesis parameter	Materials Today: Proceedings Volume 3, Issue 6, 2016, 2278-2283	ISSN: 2214-7853	3.2	International
3	Characterization of Silver nanoparticles prepared by herbo metallic method	IJESRT 5(12)2016,967-972	ISSN: 2277-9655	1.8	International
4	Morphological growth study of extended branches of silver nanodendrites using piper betel leaf extract	Materials Today: Proceedings Volume 3, Issue 6, 2016, 2278-2283	ISSN: 2214-7853	3.2	International

5.8. Papers presented at National / International Journals :

S.No	Title of the Paper	Names of the Conference/ Seminars	National/ International	Period
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1	Sol-gel Synthesis and Characteristics of Fe ₂ O ₃ nanoparticle	NCONSEA	National	2012
2	Sample measuring polarimetry at the surface of a wood material	ICMST	International	2012
3	Synthesis of SnO ₂ nano particles with medicinal herbs	NANOS	International	2015
4	Large scale preparation of ZnO nanospheres by the traditional Indian herbal method and characterization by latest technology	IDMMNS	National	2018
5	Characterization of SnO ₂ Nanoparticles in the traditionally prepared Ayurvedic medicine	ICONSEA	International	2014
6	Morphological change of silver nanoparticles by the effect of synthesis parameter	RAINSAT	International	2015
7	Synthesis and characterization of Silver nano dendrites	VCAN	International	2020

5.9. Sponsored research Projects:

S.No	Title	Agency	Period	Grant amount	Ongoing / Completed

5.10 Consultancy Projects:

S.No	Title	Agency	Period	Sanctioned Amount	Ongoing / Completed

6. Awards / Honors received:

7. Motto: Treat every student as your own kid.