

Career Objective:

To pursue challenging in teaching and research career in an intellectually stimulating environment to utilize my technical, analytical skills to maximum extent for the nourishment of organization along with self enrichment.

Academic Background:

| Programme | Year of passing | Board / Institute | Percentage |
|--|------------------------|--|-------------------|
| M.Tech. (Materials Science) | 2011 | IIT Kanpur, India | 8.62/10 (CPI) |
| M.Sc. (Physics) | 2008 | Andhra University, India | 71.88 |
| B.Sc. (Maths, Physics, Chemistry) | 2006 | Andhra University, India | 75.88 |
| Intermediate (Maths, Physics, Chemistry) | 2003 | Board of Intermediate Education, India | 90.5 |
| S.S.C. | 2001 | Board of secondary education, India | 79.8 |

Areas of interest:

- ♣ Condensed Matter Physics
- ♣ Materials Science
- ♣ Experimental physics
- ♣ Superionic conductors

Scholastic Achievements :

- Selected for **CSIR- National Eligibility Test** in Physics for **Junior Research Fellowship** as well **Lectureship in 2009**
- Secured **122th rank in** in GATE 2007 in Physics
- Secured **96.02** percentile in the all India **JEST-09** examination in **Physics** discipline
- Selected as **Lecturer (Degree College)** through direct recruit by APPSC in 2013.
- Selected as **Assistant Professors/Lectureship in Physical Science** through APSET held on **11th September, 2016**.

M.Tech Thesis:

Title: Synthesis and Characterization of the Li-ion based solid electrolyte

Thesis Supervisors: **Dr. Kamal K Kar and Prof. K.Shahi**
Department of Materials Science Programme,
IIT Kanpur

Brief description:

My work involved in the synthesis and characterization of the Li –ion based solid electrolyte. The synthesis can be done by Melt Quenching method and the characterization was carried out by using X-ray diffraction, AC impedance ionic conductivity experiment, DSC, SEM and EDAX. These solid electrolytes are mainly useful for solid state batteries, sensors, Fuel cells and some other electrochemical devices.

Technical Skills

- Knowledge in **materials characterizing techniques** like
 - ✓ AC impedance analysis experiment
 - ✓ X-Ray Diffraction
 - ✓ Scanning Electron Microscope
 - ✓ Differential Scanning Calorimetry
 - ✓ Cooling curve experiment
 - ✓ Ionic Conductivity

Professional Carrier:

- Selected as Degree Lecturer in Physics in Higher Education through APPSC on 2013 and first putting at Government Degree College, Yeleswaram.

| SL.No | Designation | Institution | Period of working | Length of Service |
|-------|---------------------|--|--------------------------|-------------------|
| 1 | Lecturer in Physics | Government Degree College, Yeleswaram, East Godavari District. | 03.01.2013 to 03.09.2015 | 2 years 8 months |
| 2 | Lecturer in Physics | SVRK Govt. Degree College(M) Nidadavole West Godavari | 04.09.2015 to till date | 3 years 5 months |

Orientation programme, Refresher courses and training programmes:

- ✓ Completed “ **Orientation Programme**” from 18-04-2013 to 15-05-2013 at University of Hyderabad, Hyderabad
- ✓ Attended three days training programme on “ **Human Values and Professional Ethics**” from 15-07-2013 to 18-07-2013
- ✓ Participated State Level Seminar on “ “ at Government College (A), Rajahmundry on 28.02.2014
- ✓ Attended to “ **Training of trainers program on Right Information Act- 2005**” at Dr. MCR HRD Institute, Hyderabad from 18.05.2015 to 22.05.2015
- ✓ Attended Faculty development programme and workshop on “ Light Emitting Devices and Materials (LED- 2015)” at Government College (A), Rajahmundry on 20.11.2015
- ✓ Attended JKC –TISS TOT Programme on “ **Digital Literacy**” at Government College (A), Rajahmundry from 23.01.2016 to 25.01.2016
- ✓ Participated in Two days National Seminar on “ **Advanced Materials in Science and Technology**” at P.R.G.C. (A), Kakinada from 23.09.2016 and 24.09.2016
- ✓ Completed Three week summer school on “ **Strategies for Research Oriented Teaching**” from 06.06.2016 to 25.06.2016 at UGC-HRDC, JNTUH, Hyderabad (Refresher Course)
- ✓ Attended Three day residential programme on “ Faculty Development Programme on New Market Oriented Restructured Courses” at APHRDI, Bapatla from 03.08.2017 to 05.08.2017

- ✓ Participated National Seminar on “ Higher Education Systems in the Light of Re-organisation of the states: Trends, Opportunities and challenges” by APGCTA on 11.03.2018
- ✓ Completed One week Orientation Workshop on “ OER, Content Development, MOOCS and MOODLE” organized by E&ICT Academy, NIT Warangal, from 09.11.2018 to 14.11.2018
- ✓ Participated in One day State level seminar on “ Kavitham Jeevitham lo velugulu nimputundi (కవిత్యం జీవితంలో వెలుగులు నింపుతుంది) held on 23.02.2019 at SVRK Government Degree College (M), Nidadavole
- ✓ Completed SWAYAM online course (ARPIT) on “ ICT in Teacher Education” held on 30.03.2019 offered by Aligarh Muslim University
- ✓ Participated One day State Level workshop on “ Enhancement of Internal Quality and NAAC Accreditation” held on 29.10.2019 at SVRK Government Degree College (M), Nidadavole
- ✓ Participated Three Day National Level workshop as Faculty Development Programme on “ Research Methodology – Mechanism for effective Implementation” from 19.11.2019 to 21.11.2019 at SCIM Government Degree College, Tanuku, west Godavari
- ✓ Participated In National Seminar on “ Role of IQAC towards Quality Enhancement and Sustenance from NAAC Perspective” from 29.11.2019 and 30.11.2019 at Government College (A), Rajahmundry

Courses taught in Undergraduate:

- Mechanics and waves & oscillations
- Wave optics and thermodynamics
- Electricity, Magnetism and electronics
- Modern physics
- Energy storage devices

PROFESSIONAL COURSES STUDIED DURING M.Tech. & M.Sc.:

M.Tech. Material science:

I Semester: Structural & Magnetic Properties of Materials, Electrical & Dielectric Properties of Materials, Mechanical Properties & Related Phenomena,

II Semester: Characterization of Materials, Materials Engineering/Processing, Magnetism in Materials, Microscopy, Electronic Materials.

M.Sc. Physics :

Introduction to Solid State Physics, Semiconductor Physics, Superconductivity, Magnetism, Probes of Condensed Matter Physics, Low Temperature Techniques.

Other Basic Courses at M.Sc.:

Mathematical Methods, Electronics, Electromagnetic Theory, Classical Mechanics, Quantum Mechanics, Statistical Mechanics, Computational Techniques, Introduction to Laser Physics, Introduction to Particle Physics, Nuclear Physics, Signals & Systems and various Laboratory Techniques.

Personal Information:

Date of Birth : 18-06-1986
Sex : male
Nationality : Indian
Marital Status : Married
Languages known : English, Telugu (Mother Tongue)
Email : nagu.amma@gmail.com
Mobile No : 9966506486

Permanent Address : Siddanathi Nageswara Rao,
S/o Tata babu, Chanduluru (village),
L.Kota (Mandal),
Vizianagaram (Dist),
Andhra Pradesh, INDIA-535161.

Contact address : Siddanathi Nageswara Rao,
Lecturer in Physics,
SVRK Govt. Degree College (M),
Nidadavole,
West Godavari (Dist),
Andhra Pradesh, INDIA-534301

Declaration

I hereby declare that all the information furnished above is true to the best of my knowledge

Date:

(S.Nageswara Rao)