

# Dr. S Devaki Rani

**Professor & HOD LMIIM, MISTE** Metallurgical Engineering

Areas of Interest: Metallurgy and Material Science

## - • Educational & Professional

### - Academic Qualifications

- Ph.D in Mechanical Metallurgy, AU (1999-2002)
  - Professional Experience

## - • Teaching Experience

- • Associate, 13 (2000 - Till Date)

### - • At JNTUH

- Professor, JNTUH CEH (2016 Till Date)
- Associate prof, JNTUH CEH (2013 2016)

### - • Research

## - **Research Projects**

- Point Stirring A Novel technique in MMC, funded by AICTE R&D - 4.65 lakhs (2004 - 2007)

- • Publications

- International Journals

- Dr. S Devaki Rani, Artificial neural network based optimization of pre requistic properties for the design of bio compatitable Titanium alloys, computational materials science, ISBN No.0927-0256, Vol No.149, pp.259-266, March, 2018

- Dr. S Devaki Rani, Beta Transus Prediction of Titanium Alloys Through Integration of Artificial Neural Network And Multifactor Dimensionality Reduction Analysis, Materials Discovery, ISBN No.2352-9245, Vol No.2, pp.16-23, January, 2016

-> Srinivasa Rao, Dr.S.Devaki Rani, *Evaluation of Compression Behavior of Aluminum Alloy (AA2219)*, IJIET, February, 2016

- Noori Bhanu, Dr.S.Devaki Rani, *Beta transus prediction of titanium alloys through integration of artificial neural network and multifactor dimensionality reduction analyses*, Materials Discovery, January, 2016

- Dr. S Devaki Rani, Development of An Artificial Neural Network Model to Predict The properties of Alpha and Near Alpha Titanium Alloys As a Function of Their Composition, IJIRSET, ISBN No.2319-8753, Vol No.3, Issue No.4, pp.11279-11288, April, 2014 - Dr. S Devaki Rani, Corrosion Behavior of NIMONIC -90 Alloy, IJIET, ISBN

No.2319-1058, April, 2014

- Dr. S Devaki Rani, *Production and Characterization of Al-7%Si-0.3%Mg Alloy*, IJIET, ISBN No.2319-1058, Vol No.3, Issue No.3, pp.148-152, February, 2014

- Dr. S Devaki Rani, Effect of B4C particle Size On Evolution of Microstructure Of In-Situ (TiB-TiC)/Titanium Matrix Composites, IJIET, ISBN No.2319-1058, Vol No.3, Issue No.3, pp.77-82, February, 2014

- Dr. S Devaki Rani, *Characterization of Precipitation Hardenable Stainless Steels*, IJTARME, ISBN No.2319-3182, Vol No.3, Issue No.1, pp.40-43, January, 2014

- Dr. S Devaki Rani, *Effect of Cold Deformation In AA2219 Aluminum Alloy*, IJTARME, ISBN No.2319-3182, Vol No.3, Issue No.1, pp.62-67, January, 2014

- Dr. S Devaki Rani, *Characterization of Sn-Bi and Sn-Bi-Zn Alloys*, IJAMMC, ISBN No.2347-1891, January, 2014

- Dr. K. Srinivasa Vadayar, Dr.S.Devaki Rani, *Production and Characterization of Al-*7%*Si-0.3%Mg Alloy*, International Journal of Innovations in Engineering and Technology (IJIET), ISBN No.ISSN:2319-1058, Vol No.vol-3, Issue No.Issue-3, February, 2014

- Dr. S Devaki Rani, Synthesis And Characterization Of Ti- TiB-TiC Composites,

TPMAI, ISBN No.0377-9416, pp.37-41, December, 2013

- Dr. S Devaki Rani, *Micro Structural and Mechanical Characteristics of In- Situ Titanium Metal Matrix Composites*, IJTARME, ISBN No.2319-3182, Vol No.2, Issue No.4, pp.12-16, December, 2013

- Dr. S Devaki Rani, *Production and Characterization of Titanium Matrix Composites By VHP Route*, IJAMMC, ISBN No.2277-3886, Vol No.3, Issue No.2, pp.508-510, July, 2013

- Dr. S Devaki Rani, *Flexural Strength Of (TiB+TiC)/Ti Matrix composites Synthesized by Pressureless Sintering*, IJSAA, ISBN No.2277-2677, Vol No.3, Issue No.1, pp.96-98, May, 2013

- Dr. S Devaki Rani, *Hot Corrosion Behaviour of Nickel Based Super Alloys*, IJARME, ISBN No.2231-5950, Vol No.3, Issue No.1, pp.1-5, January, 2013

- Dr. S Devaki Rani, *Evaluation of Bulk Mechanical Properties of Selected Lead Free* Solders in Tension and in Shear, Journal of Material Engineering and Performance, ISBN No.2359–2365, Vol No.22, Issue No.8, pp.2359-2365, August , 2013

- Dr. S Devaki Rani, *Impression Creep of tin based lead free solders*, Materials Science and Technology, Vol No.20, Issue No.3, pp.403-408, July, 2013

- Dr.S.Devaki Rani, G.S.Murthy, *Evaluation of Bulk Mechanical Properties of Selected Lead â*€"*Free Solders in Tension and in Shear*, Journal of Materials Engineering and Performance (JMEP), ISBN No.ISSN 1059-9495, March, 2013

### - • Events Participated/Organized

### - Presented

- Presented a paper in *PMAI-13*, PMAI, PUNE, 07-02-2013 to 09-02-2013
- Presented a paper in *PMAI-13*, PUNE, 06-02-2013 to 09-02-2013
- Resource Person

- Resource Person in a Conference on International Conference on Environment and Energy, ICEE, 18-06-2019 to

- Participated

- Participated in a Workshop on NBA Accreditation (SAR Filling and Preparedness for Assessment), UGC HRD Auditorium JNTUH, 14-12-2017 to 16-12-2017

- Participated in a Conference on *Recent Advances in Chemistry and Chemical Engineering (ICRACCE)*, JNTUH, 11-07-2016 to 13-07-2016

- Participated in a Workshop on NBA Accreditation, Gachi Bowli, Hyderabad.,

15-12-2015 to 17-12-2015

- Participated in a Workshop on NBA Accreditation, ESCI, Hyderabad, 01-12-2015 to

- Participated in a Refresher Course on *e-Learning and ICT for Teaching Learning*,

UGC-HRD Centre, JNTUH, Hyd, 02-11-2015 to 07-11-2015

- Participated in a Workshop on Awareness Workshop on Outcome Based Education and Accreditation, TEQIP-II, JNTUH CEH, 14-09-2015 to

- Participated in a Workshop on Awareness Workshop on Outcome Based Education and Accreditation, JNTUHCEH, 14-09-2015

- Participated in a Workshop on *Iron and Steel Making (IWIS) 2014*, IISC, Bangalore, 03-12-2014 to 05-12-2014

- Participated in a Workshop on *Iron and steel Making (IWIS) 2014*, IISC, Bangalore, 03-12-2014 to 05-12-2014

- Participated in a Refresher Course on *Bio-Nano Technology*, UGC-ASC, 22-09-2014 to 24-09-2014

- Participated in a Workshop on Workshop on Mentoring skills and thinking skills for Engineering Faculty, JNTUHCEH, HYD, 18-07-2014 to 19-07-2014

- Participated in a FDP on *Characterization of Materials and Processing of High Strength Materials*, GRIET, Hyderabad, 25-06-2013 to 06-07-2013

- Participated in a Refresher Course on *Trends and Advances in Heat Treatment of steels*, NIT Warangal, TEQIP-Phase-II, 30-07-2012 to 03-08-2012

## - Honors & Professional Activities

## - Professional Activities

- Teaching Laboratory classes Mentoring Student project works guidence Administrative works Member in COE and in other committes consituted by the college/Universities. Helping the authorities as and when required in various other fields etc.,

## - **Teaching**

- • particulate Material Technology in M.Tech (Metallurgy) II-Semester (2020)

- Iron making & Steel Making Technologies in B.Tech (Metallurgical Engineering) I-Semester (2020)

#### - Adminstrative Positions Held

- BOS Chairperson, JNTUH CEH, 17 Dec 2016 Present
- Head of the department, JNTUH CEH, 14 Oct 2014 06 Feb 2017
- BOS Chairperson, JNTUH CEH, 01 May 2010 06 Oct 2012

#### - Project/Research Guidance

#### - Students

Student Name	Title	Year	Download
Smt. Noori Bhanu	MODELING OF ALFA, BETA, ALFA+BETA TITANIUM ALLOYS BY USING ARTIFICIAL NEURAL NETWORKS AND GENETIC ALGORITHMS.	2018	

#### - • Consultancy

I. Dr. S. Devaki Rani, Associate Professor as a co - coordinator of consultancy project titled "Critical Analysis of Accretion Formation(RING) in Rotary Kiln Process at SIU, Paloncha― from NMDC, Hyderabad in September 2013.
J. Testing of Meshes, HAL Balanagar, Hyd.Â

Contact :

### **Dr. S Devaki Rani** Metallurgical Engineering

Official Email: <u>devakiranis@jntuh.ac.in</u> Alternate Email: <u>devakiranis@yahoo.co.in</u> Phone: 040-23158661