

## **FACULTY PROFILE**



**Name: Dr. Sambasiva Rao Kambala, Ph.D.**

Designation: Associate Professor

Department of ECE,

Hindustan Institute of Technology and Science

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**Experience:**5. 2in years

**Research area:**Instrumentation, Machine learning, Non-destructive testing,Signal and Image Processing,

### **Recent Publications:( last 5 years)**

1. **K. Sambasiva Rao**,T. V. Beatriceveena,C.S Angani and Lucky Agarwal, **2020**, 'Novel Time-Domain Parameters For Detection And Classification Of Flaws Using Pulsed Eddy Current Technique' *Journal of Magnetism*, Vol. 25, pp. 434-439.
2. Lucky Agarwal, Richa Singh, Gaurav Varshney, **K. Sambasiva Rao**, Shweta Tripathi, **2020**, 'Design and Analysis of Yb doped ZnO (YZO) and P-Si Bilayer Nano-Stacked Reflector for Optical Filter Applications' *Superlattices and Microstructures*, Vol. 146, pp. 106670.
3. **K. Sambasiva Rao**, S. Mahadevan, B. Purna Chandra Rao, and S. Thirunavukkarasu, **2018** 'A new approach to increase the flaw detection

capability of pulsed eddy current technique' *Measurement*, Vol. 128, pp. 516-526.

4. **K. Sambasiva Rao**, B. Purnachandra Rao, S. Thirunavukkarasu and S. Mahadevan**2017**. Development of pulsed eddy current technique for testing thick stainless steel plates' *Studies in Applied Electromagnetics and Mechanics*, Vol. 42, pp. 123-130.
5. **K. Sambasiva Rao**, B. Purna Chandra Rao, and S. Thirunavukkarasu, **2016**. 'Development of pulsed eddy current instrument and probe for detection of subsurface flaws in thick materials' *IETE Technical Review* Vol. 34, pp. 572-578.
6. **K. Sambasiva Rao** and Lucky Agarwal, **2020**, 'High-Efficiency Solar cells with a Planar Nanostructure Junction' *Nanomedicine and Nanotechnology*, Vol. 5, pp. 1-8.

### **Projects:**

Nil

### **Achievements:**

1. Smart India Hackthon (**SIH-2019**) **winner** for the complex problem in the hardware edition for **Tata Steel** Processing and Distribution Ltd.
2. **Best thesis** award from HBNI, Mumbai for the academic year 2017-2018.
3. **Best paper award** for industrial equipment development from **IETE-technical review** journal (SCI) for the year 2017.
4. **ISNT Eddy current level-II certification.**
5. **HBNI and IIM Endowment Fellowship (Young Scientists Category)** from the Indian Institute of Metals (IIM) for attending "The 21<sup>st</sup> International

Workshop on Electromagnetic Nondestructive Evaluation (ENDE-2016)",  
Lisbon, Portugal, September 2016.

6. **International Travel fellowship** from CCSTDS , Chennai, to attend international conference at Lisbon, Portugal, September 2016.