



## Department of Electronics and Instrumentation Engineering

GITAM (Deemed to be University)

**Date: 09-11-2018 to 10-11-2018**

### About IntelliSense:

IntelliSense ignited the MEMS industry in the early 1990's with its IntelliSuite® family of innovative CAD tools. IntelliSuite is the industry-leading tool set for MEMS layout design, advanced process simulation, FEA, parametric analysis, system simulation, packaging analysis and more. Covering all aspects of the MEMS design cycle, IntelliSuite provides a groundbreaking end-to-end software solution for MEMS Professionals. IntelliSense also provides a global one stop MEMS Solution for universities, Blue-chip companies and start-ups with its custom design, consulting and fabrication services. With users in over 30 countries, IntelliSense is the largest MEMS software vendor with its own in-house fabrication facility. IntelliSuite is an easy-to-use, interactive, user-friendly application oriented especially in the fields of MEMS & NEMS. The software contains a wide range of closely integrated tools to seamlessly go from schematic capture and optimization to design verification and tape out. A flexible design flow allows one to start their design at either schematic, layout or 3D level. IntelliSuite consists of a number of advanced tools that work together. For instance, Synple allows to capture MEMS at a schematic level, much like SPICE for electrical circuits. The design can then be quickly iterated and optimized at different granularities. Sophisticated synthesis algorithms can automatically convert the schematic into mask layout, 3D or better yet a meshed structure for full Multiphysics analysis

### About the Workshop:

GITAM (Deemed to be University) organizing a two-day workshop on MEMS and Micro-systems in Integration with EDA. In the age of miniaturization of electronics systems, Micro Electro Mechanical Systems (MEMS) and integrated Micro systems have assumed great significance. Today, such miniaturized Microsystems are increasingly found in every facet of human activity; whether food, healthcare, housing, transportation, energy as well as defense and aerospace. The future Smart cities will be built on the foundation of smart sensors and systems. In India, the research, development and teaching of micro devices and systems is at a nascent stage. In India, there is a dire need to develop interest and understanding about applications, design and fabrication of such systems into the young and engineering and budding researchers. Through the proposed workshop we aim at exposing young professionals to the range and depth of MEMS and Microsystems.

### Objectives of the Workshop:

The objective of this two days workshop is to provide adequate exposure to Design of MEMS and Microsystems through expert Training from IntelliSense India.

<b>Speaker:</b> <b>K.Sripadaraja</b> Intellisense Bangalore India	<b>Major course content:</b> MEMS basics and overview MEMS Clean Room Simulation Coupled FEM Simulation MicroFluidics & RF MEMS MEMS System Integration MEMS+IC)	<b>Registration: (Max. of 25 participants)</b> <b>Registration fee- Nil</b> <b>Important Dates:</b> Last Date for submission of application: 05-11-2018 Selection intimation by email: 06-11-2018 <b>Duration of Program:</b> 09th Nov 2018 - 10th Nov 2018	<b>Convenor:</b> Dr.B.Rajesh Kumar Associate Professor, Dept.of EIE,GIT GITAM ( Deemed to be University) Visakhapatnam Mobile No: 9989893955 Email: <a href="mailto:rajesh.burra@gitam.edu">rajesh.burra@gitam.edu</a>
<b>Venue: Room.No:528, Department of EIE, ICT Bhavan, GIT, GITAM (Deemed To Be University), Visakhapatnam</b>			