

109.Design and Modelling of MEMS Device using Coventorware

<p>Registration Form Two days Faculty Development Programme on "Design and Modelling of MEMS Devices using CoventorWare"</p> <p>Name of the Participant:</p> <p>Designation:</p> <p>Department:</p> <p>College Name:</p> <p>Address:</p> <p>Contact Number</p> <p>Email id:</p> <p>Signature with seal Head of the institute</p> <p>Signature of the Applicant</p>	<p>Resource Persons Dr. Jyotirmoy Dutta Technical Lead (MEMS) FTD Infocom Pvt Ltd, Bangalore</p> <p>Chief Patron: Dr. Ashok Shettar Vice Chancellor, KLE Techno logical University, Hubli.</p> <p>Prof. B. L. Desai Registrar, KLE Techno logical University, Hubli.</p> <p>Dr. P. G. Tewari, Principal, BVBCET, Hubli.</p> <p>Organizing Committee Dr. Anil V. Nandi Dr. Leema Rose Viannie Prof. Rajashekhar Savadi Prof. Kaushik M. Prof. Sujata N.</p> <p>Convener: Dr. Nalini C. Iyer HOD, BVBCET, Hubli Email: hod_ece@bvo.edu</p> <p>Co-coordinator: Prof. Shrishail Pattenashetti Email: shrishail@bvo.edu</p>	<p>K. L. S. Society's</p>  <p>B. V. Bhoomanaddi College of Engineering & Technology, Vidyannagar, Hubli - 580 031. www.bvbcet.edu</p>  <p>Two days Faculty Development Programme on "Design and Modelling of MEMS Devices using CoventorWare"</p> <p>Under TEQIP on 9th and 10th April 2018</p> <p>Organized by Department of Electronics & Communication Engineering</p> <p>Coordinator Prof. Shivasankar A. Huddar Department of ECE BVBCET, Hubli.</p>
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<p>About the Institution : GYMCAET</p> <p>Established in 1947, BVBCET has achieved an enviable status due to a strong emphasis on academic and technical excellence. A constant endeavor to keep abreast with technology has resulted in excellent state-of-the-art infrastructure that supplements every engineering discipline. Currently college offers 12 UG and 8 PG programs affiliated with VJSSVETech Technological University, Belgium and is recognized by AICTE, New Delhi and accredited by NBA.</p> <p>About ECE Department</p> <p>Department was established in 1979 & is the pride of Karnataka. The graduates from this department are playing a vital role in the IT revolution and are instrumental in packing Karnataka on the global IT landscape. Active engagement of faculty in research has led to recognition of department as a research center by the University. E&C students are placed in major industries such as IBM, Motorola, Siemens, Alcatel, Intel, Microsoft, Bosch, KPTI Sankalp semiconductors Pvt. Ltd. is housed in our campus which mentors the staff and students in the area of Analog and Mixed signal design. The department is working with following industries which have given considerable input in the design of the curriculum in Automotive Electronics, VLSI, Communication and Networking; ARM India Ltd., KPTI, Sankalp Semiconductor, ARM India Ltd., Juniper Network, CISCO.</p>	<p style="text-align: center;"><i>No days</i></p> <p style="text-align: center;">Faculty Development Programme</p> <p style="text-align: center;">on</p> <p style="text-align: center;">"Design and Modelling of MEMS Devices using CoventorWare"</p> <p>Micro-electro-mechanical systems (MEMS) are miniature devices or systems with characteristic sizes ranging from micrometers to millimeters, combining electrical and mechanical components, which either creates an electrical signal due to the change of a physical property (sensor) or cause physical effect when subjected to an electrical signal (actuator). MEMS devices are fabricated using integrated circuits (IC) compatible batch processing techniques. In general MEMS manufacturing technologies can be divided into these categories: bulk micromachining, surface micromachining and LIGA process.</p> <p>The applications of MEMS devices are manifold. In general MEMS can be divided into two major groups, sensors and actuators. The major MEMS based sensors currently in the market are accelerometers, pressure sensors, gyroscopes, sensors for gas flow, remote temperature measurement, strain, force, induction, humidity, dew point actuators. In MEMS actuators, the commonly used actuation principles are electrostatic, thermal, piezoelectric and magnetic.</p> <p>CoventorWare is an integrated suite of design and simulation software that has the accuracy, capacity and speed to address real-world MEMS designs. MEMS devices, including inertial sensors (accelerometers and gyroscopes), microphones, resonators, and actuators. The included field solvers provide comprehensive coverage of MEMS-specific multi-physics, such as electrostatics, coupled electro-mechanics, piezoelectric, and damping effects. Many commercially successful MEMS devices rely on other physics besides capacitive effects for sensing and actuation. Piezo-electric effects are commonly used in absolute pressure sensors as well as specialty accelerometers. There are also MEMS actuators that rely on electro-thermo-mechanical effects (Joule heating) as the main motive force. The field solvers in Coventor Ware can accurately and efficiently simulate all of these effects in real-world designs.</p> <p>Objectives:</p> <ul style="list-style-type: none"> To enable the faculty to deliver the content for the multidisciplinary course MEMS Coordinating and supporting the knowledge transfer activities of MEMS research which would result in different projects. Establishing a core group of qualified personnel for MEMS technology.
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Earlier known as
B. V. B. College of Engineering & Technology

School of Electronics & Communication Engineering

**TEQIP III Sponsored
Faculty Development Program on
Design and modeling of MEMS devices using Conventor Ware**

From 9th to 10th April, 2018

Attendance List

Sl.No.	Name of the participant	Affiliation	Signature
1	Dr. Sujata. S. Katarbajda	KLE Tech.	09-04-18 10-04-18
2	Shivashankar A. Hembale	KLE Tech	
3	Shrishani P.	KLE Tech	
4	Suhag B.S	KLE Tech	
5	Jyoti Parth Desai	KLE Tech	
6	Shamshuddin.K	KLE Tech	
7	Gjireesha H.M	KLE Tech	
8	V. L. Mane	KLE Tech	
9	R. M. Shet	KLE Tech	
10	Mikita Patil	KLE Tech	
11	Pooja S.P	KLE Tech	

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12	Janjar Digan	KLE Tech.		
13	Satish Chikkamath	KLE Tech		
14	Vijaya. Ellyal	KLE Tech		
15	Pajeshwar. M	"		
16	P. C. Nidimagund	KLE Tech		
17	Nageshwar Shankar	K. L. E Tech		
18	Khageshwar	UETU		
19	R. V. Hanu	"		
20	Rohini H.	BVBCET		
21	Shesoldha. B. H	KEETE U		
22	Tarunja R. Patil	*KLETECH		