

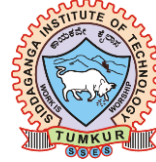
Siddaganga Institute of Technology Tumakuru – 03

(An Autonomous Institute affiliated to VTU, Belagavi, Approved by AICTE, New Delhi, Accredited by NAAC with 'A' Grade, Awarded Diamond College rating by QS I-GAUGE and ISO 9001:2015 Certified)

Department of Electronics and Instrumentation Engineering



Six Day Faculty Development Programme on ***"Embedded Systems using Renesas Synergy kit"***



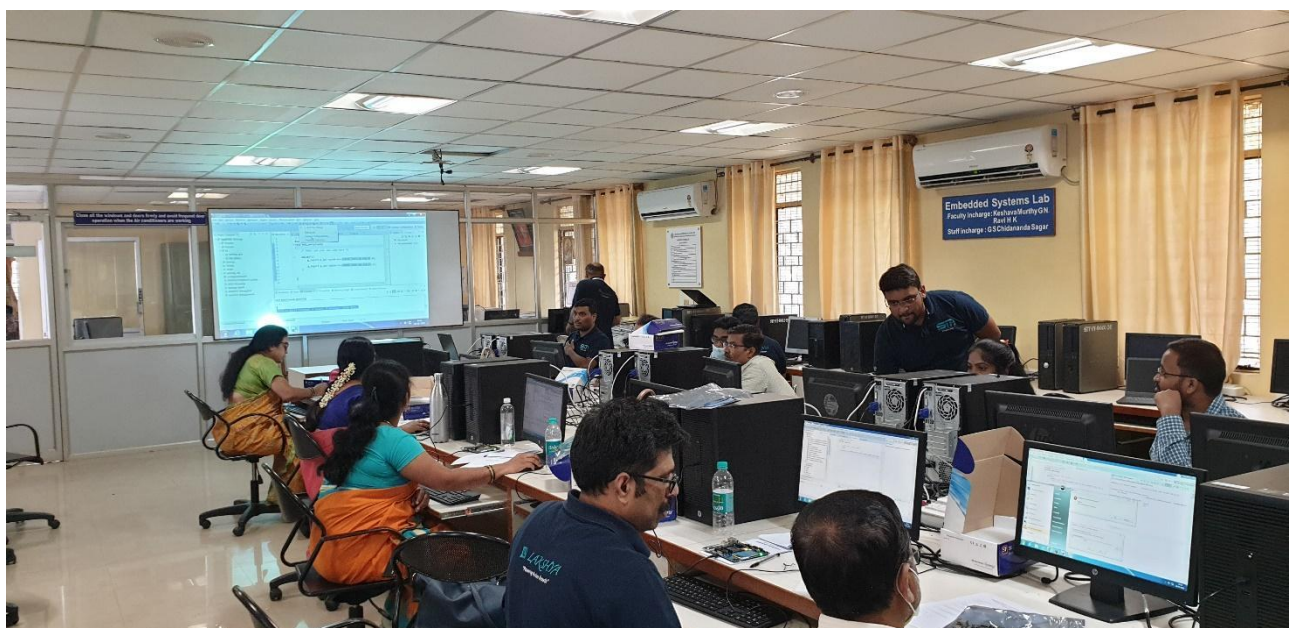
Department of Electronics and Instrumentation Engineering, Siddaganga Institute of Technology, Tumakuru, in association with SM Electronic Technologies, Pvt., Ltd., Bengaluru has organized a six-day Faculty development programme on ***"Embedded Systems using Renesas Synergy kit"***, during 4th to 6th March and 11th to 13th March, 2022. The inauguration function of the FDP was held on Friday 4th March 2022 at 9.00 AM



The inauguration function was graced by the chief guest Mr. S. Somashekar, Director Technical, SM Electronic Technologies, Pvt., Ltd., Bengaluru, Mr. Suresh D, Senior Manager, Renesas Electronics India Pvt., Ltd., Bengaluru, Mr. B.G. Chandrashekar, Vice president, Product Design, SM Electronics Technologies Pvt. Ltd. Bengaluru, Prof.P.Venkataramaiah, Distinguished alumnus of SIT, Dr. M.N. Channabasappa, Director, S.I.T., Tumakuru, Dr. S.V. Dinesh, Principal, S.I.T., Tumakuru, Dr. H.M. Kalpana, Prof. and Head, Department of Electronics and Instrumentation Engineering, S.I.T., Tumakuru, This program was coordinated by Dr. Latha H.K.E. and Mr. Ravi H.K., faculty members of the Department of Electronics and Instrumentation Engineering, S.I.T., Tumakuru.

The faculty development Programme was organized with the objective of imparting knowledge on Renesas Synergy Evaluation Kit SK-S7G2 which uses S7G2 series ARM cortex-M4 based Microcontroller from Renesas. Programming and debugging different applications are done using Synergy Software Package (SSP) with Synergy Kit SK-S7G2. The advanced features of SSP and Synergy Kit was learnt with the help of theory delivered by a well experienced Resource persons in the field from SM Electronic Technologies Pvt. Ltd. Bengaluru integrated with hands-on sessions. The sessions included

- Introduction to RTOS with Overview of ThreadX,
- Introduction to IDE
- Hands-on session on installation of IDE to Individual peripherals of the Processors including Interrupts, Timers, PWM, UART, I2C, SPI, QSPI, ADC, DAC and Ethernet. Also, sessions on interfacing TFT.
- The hands-on sessions included several practice sessions to make the audience familiar with the usage of the SK-S7G2 kit and using the kit for any product development.



Thanks to Mr. Somashekar:

Mr. Somashekar, Director Technical, SM Electronic Technologies Pvt. Ltd . Bengaluru, Distinguished Alumnus of S.I.T., Tumakuru.

He has 40+ years of industrial experience and worked on design and development of electronic systems and products. He is the co-founder of SM Electronic Technologies. He came forward to help his institute in great ways by sponsoring the faculty development programme on “*Embedded Systems using Renesas Synergy kit*”, donating 32-Synergy kits to S.I.T., Tumakuru and by sending experienced engineers from SM Electronics Technologies Pvt., Ltd., Bengaluru as resource persons to the faculty development programme. He is also helping the institute by mentoring both UG and PG Students from the Dept. of Electronics and Instrumentation Engineering, providing them the industrial exposure at SMET, Bengaluru.



Resource Persons:

1. **Mr. Sreenivasulu**
Sr. Application Manager
SM Electronic Technologies Pvt. Ltd., Bengaluru.
2. **Mr. Subramanya**
Assistant Manager,
SM Electronic Technologies Pvt. Ltd., Bengaluru.
3. **Mr. Raghavendra**
Senior Embedded Design Engineer
SM Electronic Technologies Pvt. Ltd., Bengaluru.
4. **Mr. Arun Kumar**
General Manager-Software
SM Electronic Technologies Pvt. Ltd., Bengaluru.
5. **Mr. Kaushik**
Field Application Engineer
SM Electronic Technologies Pvt. Ltd., Bengaluru.

Organizing Team

1. **Dr. Latha H.K.E.**
Programme Coordinator
Associate Professor
Dept. of EIE, SIT, Tumakuru
2. **Mr. Ravi H K**
Programme Coordinator
Assistant Professor
Dept. of EIE, SIT, Tumakuru
3. **Mr. Chidananda Sagar**
Member
Instructor, Dept. of EIE, SIT, Tumakuru
4. **Mr. Sunil Kumar V.S.**
Member
Assistant Instructor
Dept. of EIE, SIT, Tumakuru