One Week

Short Term Course (STC) on

Emerging Trends on Internet of Things with Experimental Learning

22nd-27th February, 2021

TEQIP-3
Technical Education Quality Improvement Programme

Organized by

Dept. of Electronics and Communication Engineering

National Institute of Technology Sikkim

Ravangla, South Sikkim, India, -737139

Website: www.nitsikkim.ac.in

Under the Aegis of

TEQIP-III, NPIU

MoE, Govt. of India

About NIT Sikkim

National Institute of Technology Sikkim, an institute of national importance is one among the ten newly sanctioned NIT(s) by the Government of India in 2009. The institute is offering B. Tech programs in Computer Science and Engineering, Electronics and Communication Engineering, Electrical and Electronics Engineering, Mechanical Engineering, and Civil Engineering. Moreover, the institute offers M.Tech programs in Microelectronics & VLSI Design, Electrical and Electronics Engineering, and Computer Science Engineering. The Institute also offers M Sc. program in Chemistry and Ph. D programs in all departments.

Presently, NIT Sikkim is located in a temporary campus at Ravangla, in South Sikkim which is a tourist town and it is connected by highway to other major towns in the state and lies between Pelling and Gangtok. Ravangla is situated at an elevation of 2100 m surrounded by Himalayan terrain and famous for tourist spots such as Buddha Park, Temi tea garden, and Ralong Monestry.

About the Dept. of ECE

The Dept. of ECE was established in 2010 with the laying of the foundation of National Institute of Technology Sikkim. The Department aims to provide an outstanding research environment complemented by excellence in teaching to produce engineering professionals leading a successful career in industry, academics, and entrepreneurial endeavors. The Department offers research in the areas of ASIC & Modeling and Optimization of High-Performance Semiconductor Devices, Microwave Engineering & Antenna Design, Wireless Communication, Speech Processing, Satellite Communication and Navigation. The Dept. has good laboratory facility with modern equipment to encourage the students to cope up with the latest technologies. The Department offers B. Tech in ECE with an intake of 30 students/ year, M. Tech with an intake of 22 students/year and Ph. D in Engineering.
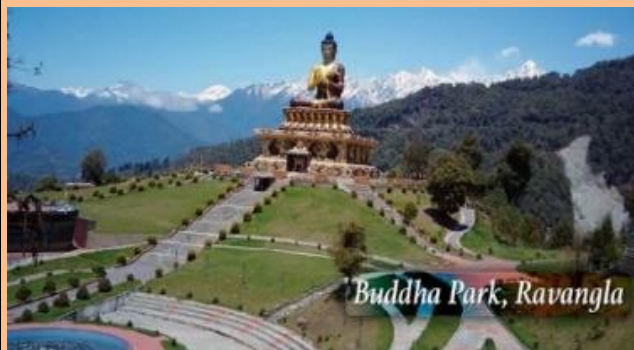
Objective of the STC

The short terms course (STC) intends to include the fundamental knowledge and modern technologies in the field of Internet of Things (IoT). An equal weightage in theoretical discussions and experimental learning/case study/ demonstration will be included in the STC. Target participants of the STC are UG & PG students, research scholars, Technical Assistants, faculty members and industry persons who are working in the field of IoT. The STC focuses on the following themes with particular emphasis to High Speed Connectivity requirement of new business model, Security Concerns in IoT, Development of new sensors, their selection in IoT problems and concluding a meaningful decision based on the processing of sensor's data, collaboration with AI algorithms etc. During this program the academicians and industry personnel in their respective areas of expertise will discuss the fundamental learning and recent advancements in the above-mentioned domains.

Resource Persons

- **Prof. Brejesh Lall**
  Professor, IIT Delhi

- **Prof. Dhananjay Singh**
  Hankuk University of Foreign Studies, Dongseo University, South Korea

- **Dr. Naveen Singh Rajput**
  Associate Professor, IIT (BHU)

- **Dr. Subha P. Eswaran**
  Senior Scientist, CRL BEL

- **Shri. Dwarkanath**
  Project Engineer, CDAC

- **Dr. Pilli Emmanuel Shubhakar**
  HoD, CSE, MNIT Jaipur

- **Dr. Amit Singhal**
  Asst. Professor, Bennett University

- **Dr. Madhusudan Singh**
  Asst. Professor, Woosong University, Asan, South Korea

Other Eminent Speakers from industry, premium Institutions of abroad, IITs, NITs, will share their knowledge as per the theme of STC.

Buddha Park, Ravangla

Organizing Committee

Chief Patron
Prof. Mahesh Chandra Govil
Director, NIT Sikkim

Patron
Dr. S. K. Jana, HOD, ECE, NIT Sikkim,
Dr. Pratyay Kuila, HOD, CSE

Convener
Dr. Hemant Kumar Kathania
Assistant Professor, Dept. of ECE, NIT Sikkim

Coordinator
Dr. Surajit Kundu
Assistant Professor, Dept. of ECE, NIT Sikkim

Co-coordinators:
Md. Sarfaraj Alam Ansari, Assistant Professor, Dept. of ECE, NIT Sikkim
Mr. Pankaj Kr. Keserwani, Assistant Professor, Dept. of CSE, NIT Sikkim
Dr. Avinash Kumar, Assistant Professor, Dept. of ECE, NIT Sikkim
Dr. Sudipta Das, Assistant Professor, Dept. of ECE, NIT Sikkim

Program Committee

Ms. Gopa Bhaumick, Asst. Prof., Department of CSE
Dr. Tarun Biswas, Asst. Prof., Department of CSE
Ms. Reshmi Dhara, Asst. Prof., Department of ECE
Mr. B. Balaji Naik, Asst. Prof., Department of CSE
Dr. Sukanta Dhar, Asst. Prof., Department of ECE
Dr. Ayan Chatterjee, Asst. Prof., Department of ECE
Dr. Jeetendra Singh, Asst. Prof., Department of ECE
Dr. Rahul Pal, Asst. Prof., Department of ECE

Advisory Committee

Dr. Achintesh Narayan Biswas, Registrar
Dr. Ranjan Basak, Dean Academics
Dr. Sangram Ray, Dean, Students Welfare
Dr. Anindya Biswas, Asso. Dean, Academics

Registration

- No registration fees to attend the STC, however registration is compulsory for participation.
- Seat are limited and it will be filled up on first come first serve basis.
- Last date of registration is **20.02.2021**
- Click the below link for registration:

  [Click Here](#)

Mode

The short-term course will be organized through online platform. The joining link will be shared with the participants, well in advance.

Certificate

E-certificate will be provided to the participants after conforming the attendance criteria.

Contact Persons

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Dr. Hemant Kathania (voice: 9732900589, email: hemant.ece@nitsikkim.ac.in)

Ralong Monastery