

## **NSS College of Engineering**

NSS College of Engineering, Palakkad, one of the oldest engineering educational institutions in Kerala, was founded in 1960 by Nair Service Society under the leadership of the late Bharatha Kesari Mannathu Padmanabhan, during the second five-year plan with the assistance of the Central and State Governments under the Grant-in Aid Scheme. The college is now affiliated to the APJ Abdul Kalam Technological University, Kerala, offering six B.Tech Programs (Civil Engineering, Mechanical Engineering, Electrical and Electronics Engineering, Instrumentation and Control Engineering, Electronics and Communication Engineering and five M.Tech Programs.

### **About the Departments**

#### **Electrical & Electronics Engineering**

The department of Electrical & Electronics Engineering was started in the year 1960. The department has established itself as one of the best and prestigious departments of NSS College of Engineering. The department has well experienced and committed faculty having specialization in different areas in Electrical and Electronics Engineering. The department of EEE is offering B.Tech and M.Tech (Power Electronics) programmes. The department has number of well-equipped laboratories and

#### **Instrumentation & Control Engineering**

The department was established in 1980 and offers a full time B.Tech Degree course in Instrumentation and Control Engineering. The total annual student intake is 72. Department has been backed up by efficient, dedicated and specialized faculty and they work with dedication to keep in pace with the ever changing control and instrumentation industry scenario.

Both the departments are actively engaged in interdisciplinary research areas.

#### **About the Workshop**

The workshop focuses on mathematical and physical modeling of neural processes at a specific chosen scale, from molecular and cellular to systems, for the purpose of understanding how the brain and related structures represent and process information. It is an interdisciplinary area which is a merging center for Neuroscience, Biophysics, Biomechanics, Applied Mathematics Electrical Engineering, Mechanical engineering and Computer Science. The ultimate objective is to provide an understanding of how the organism takes in sensory information, how such information is integrated and used in the brain, and how the output of such processing results in meaningful decisions and behaviors by the organism to allow it to function and thrive in its environment.

#### **Resource Persons**

**Dr. Ram Kumar Menon :** A leading Neurosurgeon associated with two prominent hospitals in the southern Indian state of Kerala. He has consulted over 1300 major cases which include neurotrauma, neuro oncology (meningioma , gliomas, metastasis ) and skull base like endonasal transsphenoidal pituitary surgery & acoustic schwannoma, , cerebrovascular (Intracranial aneurysms & AVM) and spinal surgeries. He has acquired many fellowships from foreign Universities and Medical Institutes. Currently he is associated with fellowship programme “Advanced spinal biomechanics fellowship Robert F Chamberlien fellowship) “at Barrow Neurological Centre Phoenix, Arizona .

**Dr. P A Suresh :** A renowned Neurologist started his career in Neurology as Assistant Professor at Sree Chithira Tirunal Institute for Medical Science and Technology. His aspiration and vision for research in cognitive and language disorders led to the development of two research institutes, Institute For Communicative And Cognitive Neurosciences (ICCONS ) at Trivandrum and Shoranur in Kerala . He presently holds the official position as Executive Director of ICCONS Shoranur and Trivandrum . His areas of research interest include Brain Signal Processing and cognitive disorders and disabilities. He has published several papers in International and National journals.