

# Sankar Polytechnic College

Sankarnagar, Tirunelveli Dist., Tamilnadu. Pin 627 357.

Sri S.N. Sankaralinga Iyer of Kallidaikuruchi, Tirunelveli Dist, was one of the Founding Directors of The India Cements Limited. Being a philanthropist, he established Sankar Polytechnic College (SPC) in 1958, to address the huge demand for authentic technical knowledge, and to develop the skill levels of students who were the fuel for the rapid pace of our nation's post-Independence industrialization era.

SPC is close to the pioneering plant of India Cements Ltd in Sankar Nagar, with an intent to develop all strata of population in this once industrially backward area. It is a government-aided, co-educational and an autonomous institute, with a dedicated staff and well-equipped laboratories to provide hands-on training for students. SPC offers Diploma programs in engineering disciplines of Civil, Mechanical, Electrical & Electronics, Electronics & Communication and Computer Science.

**As part of an initiative to transform our approach to Outcome-Based Education (OBE), we are currently *revising our Curriculum to include emerging trends and introduce industry-specific courses*, which will help our students to choose a carrier in a field of their interest with good potential and secure them assured placements.**

Since these courses will be offered jointly with industry based or industry supported research institutions and reputed companies, course contents shall be designed both by experts from the industry and academicians from our college. Relevant methodology for assessment / evaluation will also get defined in the process. In addition, for industry experts wanting to contribute directly, Hybrid / On-line lecturing options too shall be made available.

Further, along with the industry-specific elective subjects, we would also introduce an internship program for the students, with an option to Fast-Track their work-readiness. Under this program, students will be able to complete the mandatory elective subjects in Semester 4 and/or 5 and utilize the 6<sup>th</sup> semester for undertaking internship / fellowship / to engage in a start-up or enterprise or project, outside the campus. The Fast-Track option would be our recommendation to the students since we strongly believe this would complement the industry specific elective subjects we are offering as part of the program.

To summarize, the students gain knowledge in a particular domain of their choice in the 4<sup>th</sup> and/or 5<sup>th</sup> semester and would get invaluable exposure to industry and gain work experience in the same domain in the 6<sup>th</sup> & final semester, before graduating from the institute. This internship will be offered as a credit course and students will be encouraged to gain additional credits through the Internship program.

**In this regard, we are looking forward to collaborating with esteemed companies / organisations to offer Industry based elective for our students, as per details in the annexure.**

## Annexure

Addressed Industry	Electives Offered	Parent Department
Automobile - Electric	E-Vehicle Technology	Mechanical Engineering Electrical and Electronics Engineering
Automobile - Conventional	Automotive Industries	Electrical and Electronics Engineering Electronics and Communication Engineering
Biomedical	Servicing of Biomedical equipment	Electrical and Electronics Engineering Electronics and Communication Engineering
Cement	1. Concrete Technology 2. Mining Engineering	Civil Engineering
Construction	1. Project planning and Evaluation 2. Pre-fabricated Structures 3. Green Dry Construction Technology	Civil Engineering
Elevators	Operation and Maintenance of Elevators	Mechanical Engineering Electrical and Electronics Engineering
Manufacturing	1. Modern Welding Technics 2. Manufacturing Engineering and Management	Mechanical Engineering
Renewable Energy	1. Solar Photovoltaic system 2. Windmill - Installation & maintenance	Mechanical Engineering Electrical and Electronics Engineering
Semi-conductor	1. Embedded systems 2. PCB design 3. Industrial IOT	Electrical and Electronics Engineering Electronics and Communication
Software	1. Cyber security 2. Data Analytics 3. DevOps	Computer Engineering
Steel	Structural Detailing	Civil Engineering

### To note

- ✚ We have already signed a MoU with Glass Academy (a portal of **M/s Saint Gobain**) to offer *Glass technology* as an elective subject for Civil and Mechanical engineering students
- ✚ We are at an advanced level of discussions with **M/s Tessolve Semiconductors Pvt Ltd** for including *PCB design* for Electronics and Electronics & communication engineering students

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