

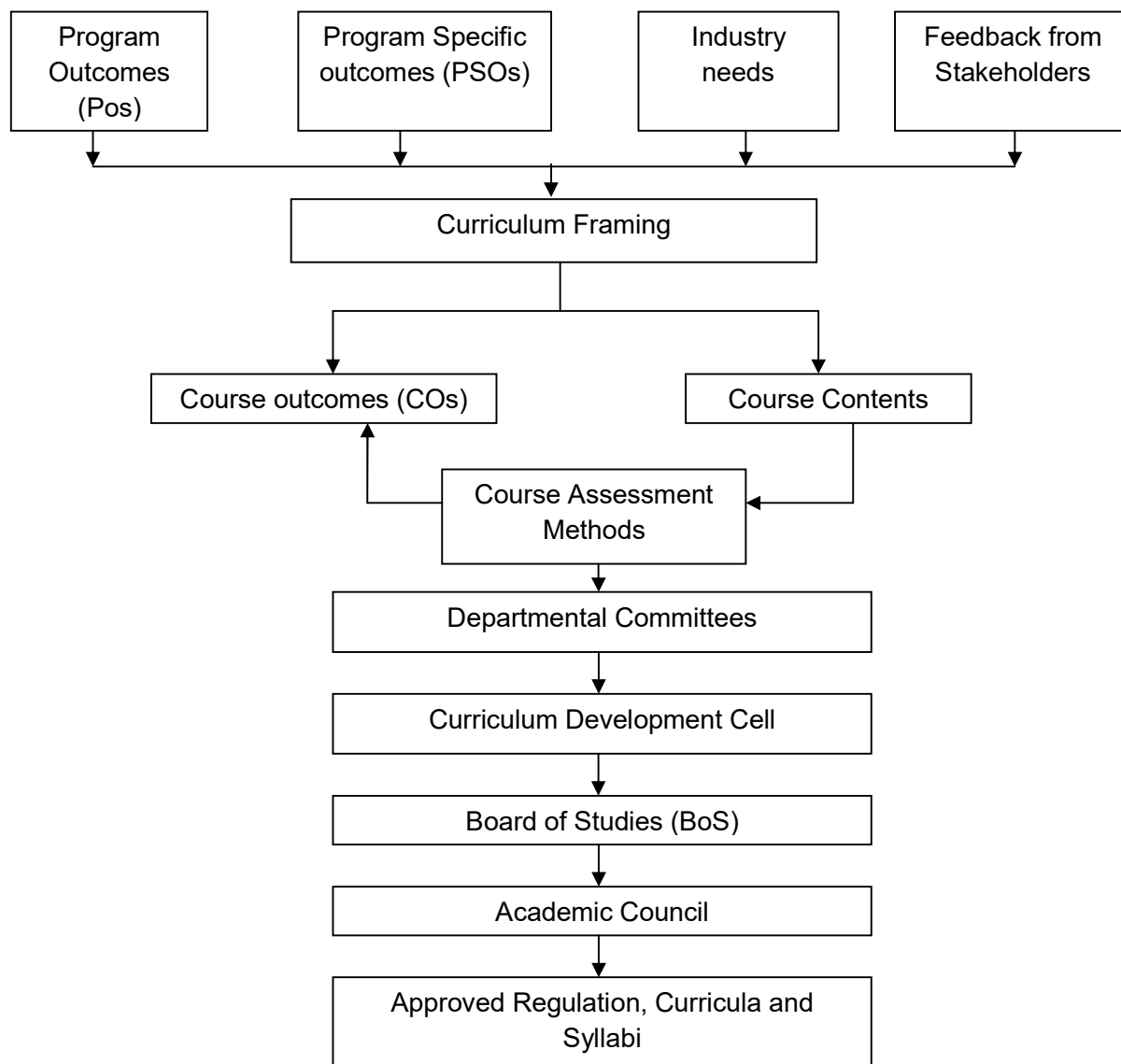
1.1.1 - Curricula developed and implemented have relevance to the local, national, regional and global developmental needs which are reflected in Programme Outcomes (POs), Programme Specific Outcomes (PSOs) and Course Outcomes (COs) of the various Programmes offered by the Institution.

The curriculum is designed by keeping in mind the developmental needs of the society with the guidelines proposed by the UGC, AICTE, Anna University and the TN State Council for Higher Education. The Curriculum is designed to develop the Skills of the students not only domain dependent , but also domain independent like Communication Skills, Self learning, Team work and it improves the design ability, analyzing ability, testing ability and synthesis ability.

Curriculum development Process:

The Departmental Committees which comprising team of senior faculty members and Head of the department identify and assess/evaluate in order to make the curricula of the programmes /courses relevant to such needs. This task is done by involving the experts from academia and industry; taking into account the feedback obtained from various stakeholders namely students, alumni, employers and faculty members. The initial phase for ensuring academic quality is the design of the curriculum, in particular, the types of courses, the number of electives, and the curricular structure, with complete details of the course title and course contents based on Blooms Taxonomy as per the regulations. The next phase, the Course Outcomes (COs) for every course is mapped with the Program Outcomes (POs) and Program Specific Outcomes (PSOs) of the program. An effective implementation of this Outcomes Based Education (OBE) ensures that our graduating engineers can compete on a global platform, and have expected global attributes. The Institute keenly observes the attainments of PO and PSO for the respective programs which intern relates to Vision and Mission of the institution and Department as well. The course designers prepare course outcomes with corresponding Bloom's level and target level of attainment followed by course design.

Following flowchart gives the Pictorial Representation of the Curriculum Development Process.



The initial version of the curriculum is prepared by having the above design criteria, through discussions with stakeholders and the proposed curriculum is approved by BOS (Board of Studies). In the next stage, the Academic Council deliberates and ratifies the syllabi of various departments. Finally, the minutes of the Academic Council is presented before the Governing

Body for approval. The academic autonomy of the Institution provides the opportunity to frequently revise the curriculum based on needs and suggestions from various stake holders.

Apart from the above, the Institution has Class Committee, Common Course Committee, Project Review committee for better organization and governance of the curriculum.

Class Committee: A Class Committee consisting of teachers of the concerned class, student representatives and a chairperson (who is not a teacher for that class) meets before and after the Internal Exam, in a semester with a set objective of improving the overall performance of the students of the class and with the objective of ensuring the achievement of POs.

Common Course Committee: A Course Committee comprises all the teachers teaching the common course with one of them nominated as course coordinator.

Functions of Class Committee / Common Course Committee:

- Review of Syllabus coverage
- Informing the Students Representatives regarding the weightages of assessments in practical courses and project works
- Solving the problems experienced by the students in class room and in laboratories
- Analyzing the performance of the students in class tests
- Identifying the weak students and providing guidance, support and special coaching for them
- Identifying Co-Curricular activities

Project Review Committee:

The Project review committee comprises of

- Head of the Department
- Dean R&D

- Project Coordinator
- Project Guide

This committee makes assessment of incremental improvements in various stages of the project work and Internships thus provides encouragement to the students to work on real-life solutions/applications, which leads to the local needs and to face the global challenges.

The Institute offers Employability Enhancement Course on Constitution of India , Life Skills ,Leadership enhancement Programme, Induction programme, credit courses on Environmental Science , Disaster Management, Professional Ethics and Human values, Digital Marketing , Data Analytics, Artificial Intelligence, Cyber Security, Image Processing, Medical Electronics, Human Resource management, Consumer behavior to meet out the local/national/regional/global needs, along with Internship, Industrial visits, value added courses and Research Projects to facilitate the development of independent thinking and scientific temper thus enhancing the experiential learning experience. The students are motivated to do NPTEL or SWAYAM courses which upgrade their knowledge and provide a platform for lifelong learning.

The main objective of this initiative is to inculcate corporate social responsibilities to positively contribute to the sustainable growth and development of people and community and to meet the new and emerging challenges of the ever-changing society, economy, and policy. This is achieved by nurturing matured citizens, scholars, and professionals who would participate in developing and offering sustainable solutions to the range of today's issues. The dynamic and well-designed curricula incorporate the latest knowledge, interdisciplinary learning, and life skills to meet out the local/national/regional/global needs.



SENGUNTHAR ENGINEERING COLLEGE (AUTONOMOUS)

(Approved by AICTE, New Delhi & Affiliated to Anna University, Chennai)
Recognized Under Section 2(f) & 12(B) of the UGC Act, 1956
NAAC Accredited with 'A' Grade

TIRUCHENGODE - 637 205 NAMAKKAL (Dt) TAMILNADU



Curricular Aspects - Web Links for Supporting Documents

Document	URL
Academic Council Meeting minutes	http://scteng.co.in/IQAC/Statutory/AcademicCouncil
Board of Studies Meeting minutes	http://scteng.co.in/IQAC/Statutory/BoardOfStudies
Curriculum and Syllabi R-2017 & R-2019 UG&PG	http://scteng.co.in/Academics/CurriculumAndSyllabi
Program Outcomes	http://scteng.co.in/Civil
Program Specific Outcomes	http://scteng.co.in/Civil
Course outcomes	http://scteng.co.in/Academics/CurriculumAndSyllabi