



Key Indicator – 1.1 Curriculum Design and Development
(50)

1.1.1 Curricula developed and implemented have relevance to the local, national, regional and global developmental needs, which is reflected in the Programme outcomes (POs), and Course Outcomes(COs) of the Programmes offered by the University
(20)

Criterion 1 – Curricular Aspects
(150)



KEY INDICATOR – 1.1.1

Curricula developed and implemented have relevance to the local, national, regional and global developmental needs, which is reflected in the Programme outcomes (POs), and Course Outcomes (COs) of the Programmes offered by the University

CURRICULA DEVELOPMENT PROCESS
(20)

CURRICULUM DESIGN AND DEVELOPMENT PROCESS

SCHOOL OF ENGINEERING & TECHNOLOGY

SUSHANT UNIVERSITY, GURUGRAM

The curriculum design and development process at the School of Engineering, Sushant University, is a systematic and collaborative effort to ensure that academic programs are robust, industry-relevant, and aligned with the institution's mission of fostering innovation and academic excellence. The steps involved in this process are detailed below:

1. Needs Assessment

- **Objective:** Identify the needs of the stakeholders, including students, industry partners, faculty, and regulatory bodies.
- **Key Activities:**
 - Conduct surveys and focus group discussions with students and alumni.
 - Analyze industry trends, skill gaps, and emerging technologies.
 - Review feedback from employers and industry advisory boards.
 - Study guidelines from accreditation agencies such as AICTE, UGC, and NAAC.

2. Defining Program Educational Objectives (PEOs) and Outcomes (POs)

- **Objective:** Establish the broad goals and specific competencies expected from graduates.
- **Key Activities:**
 - Develop PEOs that align with the university's vision and mission.
 - Define Program Outcomes (POs) based on graduate attributes prescribed by accreditation bodies.
 - Include Program-Specific Outcomes (PSOs) that cater to specialized streams within engineering.

3. Curriculum Framework Design

- **Objective:** Develop the structural outline of the program.
- **Key Activities:**
 - Decide the duration, number of semesters, and credit distribution.
 - Establish the balance between core courses, electives, practicals, and projects.



- o Integrate interdisciplinary, entrepreneurship, and research components.

4. Course Design and Development

- **Objective:** Create detailed course syllabi that address the desired outcomes.
- **Key Activities:**
 - o Identify core and elective courses based on program requirements.
 - o Develop course objectives, learning outcomes, and content modules.
 - o Define assessment strategies, including theory, practicals, and projects.
 - o Incorporate innovative teaching-learning methods such as case studies, simulations, and flipped classrooms.

5. Stakeholder Consultation and Validation

- **Objective:** Ensure the curriculum meets stakeholder expectations.
- **Key Activities:**
 - o Organize workshops with industry experts, academic peers, and alumni.
 - o Review the curriculum draft with internal faculty committees and external advisory boards.
 - o Incorporate feedback to refine and finalize the curriculum.

6. Approval Process

- **Objective:** Obtain formal approval for the curriculum.
- **Key Activities:**
 - o Present the curriculum to the Academic Council and Board of Studies.
 - o Make revisions based on suggestions from these bodies.
 - o Secure final approval from the university's governing authorities.

7. Implementation

- **Objective:** Roll out the curriculum for academic delivery.
- **Key Activities:**
 - o Develop detailed lesson plans and teaching schedules.



- o Train faculty members on innovative teaching and assessment methods.
- o Ensure infrastructure, laboratories, and learning resources are in place.

8. Continuous Monitoring and Review

- **Objective:** Maintain the relevance and quality of the curriculum.
- **Key Activities:**
 - o Collect and analyze feedback from students, faculty, and industry.
 - o Monitor student performance and placement outcomes.
 - o Conduct periodic curriculum reviews to incorporate advancements in technology and industry requirements.
 - o Update courses and content based on global best practices and feedback.

Conclusion

The curriculum design and development process at the School of Engineering, Sushant University, is a dynamic and iterative approach aimed at achieving academic excellence and industry readiness. By continuously engaging stakeholders and adapting to evolving trends, the institution ensures that its graduates are well-prepared for the challenges of the future.



Dean
School Of Eng. & Technology
Sushant University
Center 55, Gurugram

