



NARASARAOPETA ENGINEERING COLLEGE

(AUTONOMOUS)

1.1 Curriculum Design and Development

The Institute has the systematic procedure for development, revision and implementation of curriculum of all the departments. The curriculum is designed carefully by addressing the recent technologies and the opportunities existing in regional and global level with all necessary fundamentals.

Factors for Curriculum Design:

The factors considered for design of curriculum are: (i) Syllabus of various reputed Indian and International Universities (ii) Model curriculum prescribed by AICTE, (iii) The Program Specific Outcomes of professional bodies, (iv) Suggestions by industry experts and alumni, (v) Syllabi of various competitive exams like GATE, IES, etc,

Implementation of Outcome Based Education (OBE) in the Curriculum:

- 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 as per the regulations.
- The next phase, the Course Outcomes (COs) for every course is mapped with the Program Outcomes (POs) of NBA and the Program Specific Outcomes (PSOs) of the program.
- An effective implementation of this Outcomes Based Education (OBE) ensures that our graduating engineers have all the 12 POs defined by NBA, and hence can compete on a global platform, and have expected global attributes. Specific to every program, we have 3-5 Program Educational Objectives (PEOs) that are measured through the performance of the alumni.
The Institute keenly observes the attainments of PEO, PO and PSO for the respective programs which intern relates to Vision and Mission of the institution and Department as well.

Process for Curriculum Design:

The proposed curriculum is then discussed in DAC (Department Advisory Comity) and is put forth to BOS (Board of Studies) where the experts from industry, academia, Alumni in addition to senior faculty members. The curriculum is then placed for approval during the Academic Council (AC).

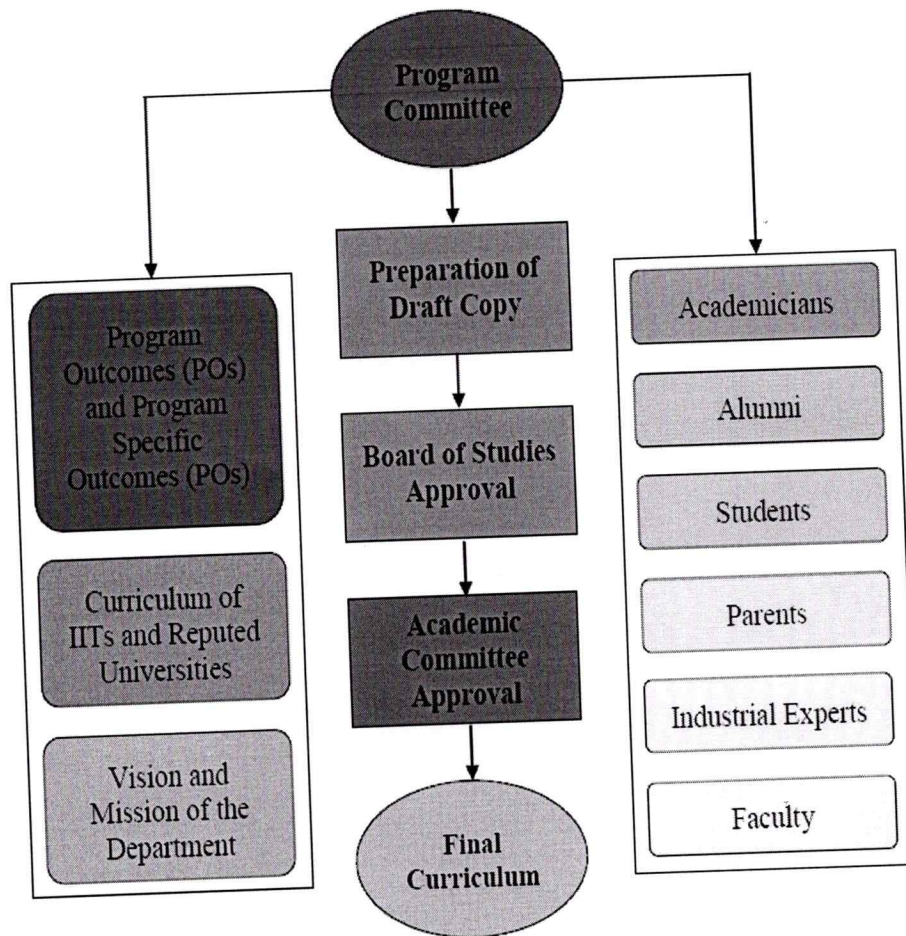
The academic autonomy of the Institution provides the opportunity to frequently revise the curriculum based on needs and suggestions from various stake holders. In last five years the syllabus of UG programmes was revised in 2016, 2019 and 2020 and for PG in 2016 and



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2019. Since the institution is situated in the rural area, revision of the curriculum focuses mainly on introducing new courses with multiple facets for improving the soft skills, general aptitude and technical aptitude. Major, Minor and Honors programmes have been introduced in regulation R20 to provide the students to become a master in their respective branch and students who are desirous of pursuing their special interest areas other than the chosen discipline.

The students are made mandatory to upgrade their knowledge by undergoing MOOCS courses through NPTEL. Further the Internship made compulsory for all the students and as a result the student can upgrade the knowledge base in diversified fields. In addition to the curriculum, student's skills are upgraded by conducting various value-added courses and become industry ready.




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