2.6.1: Programme and course outcomes for all Programmes offered by the institution are stated and displayed on website and communicated to teachers and students

Program outcomes (POs) and program specific outcomes (PSOs) for all programs offered by the institution are stated and displayed at appropriate locations. Program outcomes and course outcomes are developed by the concerned departments using a common systematic approach. Graduate attributes of Washington Accord and list of graduate characteristics issued by the National Board of Accreditation (NBA) are used to develop the Program Educational Objectives (PEOs), program outcomes, and program-specific outcomes of a department. The process for the evolution of curriculum and outcomes is shown in Fig.1.
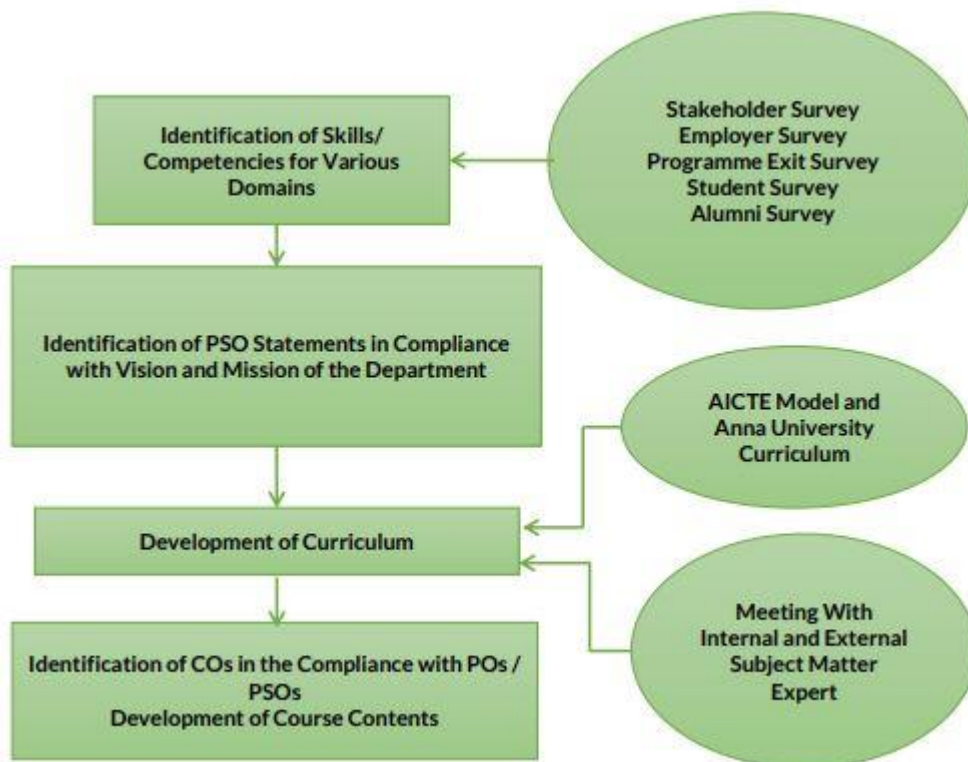

Figure 1

Process of formulating Outcomes

Feedback is obtained from industries, alumni, academic experts and students through email and in person during their visits. The collected feedback is analyzed and the Program Outcomes (POs) as suggested by the NBA, two to four Program Specific Outcomes (PSOs) are drafted for outcome-based education to evolve the broad technical areas in which the students' knowledge, technical and professional skills have to be imparted and assessed. The courses are identified and the curriculum is formed for the POs and PSOs. Course Outcomes (COs) are then written for each identified course in alignment with the POs and PSOs and are listed in each syllabus along with the Course Articulation Matrix in the curriculum. As per Bloom's taxonomy, the Course Outcome is mapped with appropriate cognitive levels which in turn are mapped with appropriate Program Outcomes in 3-point scale (3- substantial, 2- moderate and 1-slight). The syllabus content is formulated for each course outcome and thus the syllabi for all the courses are developed.

The Board of Studies of the relevant departments reviews the POs and PSOs, and the academic council of the institution approves it. The number of Course Outcomes varies depending on the type of course. A three-credit theory course will typically have five course outcomes. Based on the course delivery, course outcomes are further converted into enabling outcomes by the corresponding course handling faculty. The lesson plan includes a thorough explanation of how the outcomes are related and addressed in the course. Course content and sessions explicitly state all the relevant outcomes while they are being addressed. Additionally, the assessment question papers include Course Outcomes and its Cognitive Level. After assessment is carried out, the attainment of Course Outcome addressed in the assessment will also be indicated and verified by each student in the answer script. Refinement of COs, POs & PSOs and PEOs are carried out. The dissemination of the same to the stakeholders such as Faculty, Students, Alumni, Parents and Employers are done as mentioned below:

Dissemination of the PEOs, POs and PSOs

- Institute website
- Curriculum book
- Department Office, Notice boards, Laboratories and Department Library
- Faculty rooms and classrooms
- Department association newsletter
- Department brochure
- Faculty meetings, induction programmes, Orientation programmes, and Parents meetings

Dissemination of COs

- Curriculum book
- Lesson Plan
- Class Committee Meetings
- Question Papers