2.6.2 Q_lM

Attainment of Programme Outcomes, Programme Specific Outcomes and Course Outcomes are evaluated by the institution

Describe the method of measuring the level of attainment of POs , PSOs and COs in not more than 500 words.

File Description

- Upload any additional information
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[10/10]

Response:

All the courses together must cover all the POs (and PSOs). For a course we map the COs to POs through the CO-PO matrix and to PSOs through the CO-PSO matrix as shown below. The various correlation levels are:
"1" – Slight (Low) Correlation
"2" – Moderate (Medium) Correlation
"3" – Substantial (High) Correlation
"-"-- indicates there is no correlation.

There are four levels of outcome such as Course Outcome (CO), Program Outcome (PO), Program Specific Outcome (PSO) and Program Educational Objective (PEO).
Course Outcomes are the statements that declare what students should be able to do at the end of a course. POs are defined by Accreditation Agencies of the country (NBA in India), which are the statements about the knowledge, skills and attitudes, graduate attributes of a formal engineering program should have. Graduates Attributes (GAs) are the components indicative of the graduate's potential to acquire competence to practice at the appropriate level.
The Program outcomes reflect the ability of graduates to demonstrate knowledge in fundamentals of Basic Sciences, Humanities and Social Sciences, Engineering Sciences and apply these principles in understanding and practically apply the knowledge in professional core subjects, electives and projects which enables the graduates to be competent at the time of graduation. The graduates must adhere to professional and ethical responsibilities in the pursuit of their careers and also for the benefit of the society. These outcomes also enable the graduate to pursue higher studies and engage in R&D for a successful professional career.

Program Specific Outcomes are the statements that assert what the grandaunts of a specific engineering program should do what they can able to do. Program Educational Objectives are the broad statements which describe in detail about the career and professional accomplishments after significant years of graduation that the program prepare the graduates to achieve.

The University makes assessment of attainment of PO, PSO and CO for all programs. Course Outcomes along with their mapping with POs/PSOs is well defined for all the courses offered in the program. Program Articulation Matrix for POs/PSOs is created by taking course wise average of all the COs. Assessment tools to measure the students' learning and hence attainment of COs are categorized into direct and indirect methods. Direct methods display the students' knowledge and skills from their

performance in the continuous internal assessment, semester examinations, seminars, and class room & laboratory assignments. Indirect method involves feedback of the outgoing students to reflect their learning of various courses. Result analysis is made on the basis of attainment of CO, PO and PSO.

Gap Analysis

The articulation of COs with POs and PSOs is analyzed to find out the gaps. The gaps are bridged by compensating for the observations that may include updating of curriculum, arranging invited lectures, workshops and by mentoring the students with other suitable measures as required.

The evaluation of COs is analyzed by concerned faculty/senior faculty/Head and corrective measures are taken accordingly. Similarly, the attainment level of POs and PSOs is monitored, analyzed and corrected.