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Procedure for Attainment of Program Outcomes

At the end of the each programme, the PO/PSO assessment is done from the CO attainment of all curriculum components. The PSOs are framed recently based on latest NBA guidelines. The description of Assessment tools used for the evaluation of program outcomes is given in Table I.

In each course, the level of attainment of each CO is compared with the predefined targets, if is not the course coordinator takes necessary steps for the improvement to reach the target.

With the help of CO against PO/PSO mapping, the PO/PSO attainment is calculated by the programme coordinator.

Table I: Mapping of assessment tools to POs/PSOs with frequency

Mode of Assessment	Assessment Tool	Description	Evaluation of Course Outcomes	Related POs/PSOs	Frequency of assessment
Direct	Theory Internal Examinations	Two written examinations are conducted and its average marks are considered.	The questions in the internal examinations and assignment sheets are mapped against COs of respective course. The questions for two internal examinations and Assignments are framed in such a way to cover all course outcomes. The final attainment for each CO under direct assessment is calculated by taking average of the CO attainments from Internal Examinations and Assignments.	PO a to PO I	Two per Semester
Direct	Assignments	Two assignments are given for each course for continuous assessment. Average marks are considered.		PO a to PO I	Continuous
Direct	Day to day evaluation	The day to day evaluation is considered.	The final attainment for each CO is calculated by taking average of the % attainment from day to day evaluation and Internal Lab Examination.	PO a to PO I	Continuous
Direct	Internal Practical Examination	Internal examination is conducted in lab course.		PO a to PO I	One per Semester
Direct	Industry Oriented Project	To test student's concepts in design, creative thinking and independent analysis. Two project reviews are conducted	Two Internal project reviews are conducted and average of these two review assessments are considered .	PO a to PO I	One project review in VII Semester
Direct	Comprehensive Viva Voice Examination	To assess the student's technical and analytical skills in the domain of electrical and electronics engineering and also communication skills.	The assessment is carried out by HoD and three senior faculty members along with student's overall academic performance.	PO a to PO I	VIII Semester of every B.Tech Program and in III Semester of M.Tech Program.
Direct	Major Project	To test student's concepts in design, creative thinking and independent analysis. Three project reviews are	Continuous assessment is carried by the Project review committee. First review emphasizes on Literature survey and problem identification, second review on	PO a to PO I	Three project reviews in Final

		conducted	Design methodology and the third review on validation of the model and documentation. The external examiner assessment is considered as another assessment tool for project work. Final CO attainment is calculated from these two assessments.		Semester of every B.Tech Program and in Final year of M.Tech Program .
Indirect	Course End Survey	This survey gives the opinion of the student on the attainment of course outcomes.	Here, the CO attainment is calculated under indirect assessment. The indicators in the survey form are framed in line with the respective Course outcomes.	PO a to PO I	At the end of each course
Indirect	Graduate Exit Survey	This survey gives the opinion of the graduate on the attainment of Programme outcomes.	At the end of the programme, the graduate exit survey is collected from the graduates and considered for the PO attainment under indirect PO assessment.	PO a to PO I	At the end of the program