

Part B-Program Assessment Worksheet
Program Level Criteria- To Be Assessed by Evaluator

Name of the Institution :

Name of the Program :

Criterion 1: Course Outcomes and Program Outcomes (100)

SN	Sub Criteria	Max. Marks	Evaluation Guidelines (Marks)	Marks Awarded		Overall		Observations of Evaluators (Provide Justifications/ Reasons)
				Marks	Total	Marks	Grade (Y,C,W,D)	
1.1	State the Vision and Mission of the Department and Institute	5	A. Availability of vision and mission statements of the Department (1)					
			B. Appropriateness/Relevance of the Statements (1)					
			C. Consistency of the Department statements with the Institute statements (1)					
			D. PEO statements and their appropriateness (2)					
1.2	Indicate where the Vision, Mission and PEOs are published and disseminated among stakeholders	5	A. Adequacy in respect of publication & dissemination (1)					
			B. Process of dissemination among stakeholders (1)					
			C. Extent of awareness of Vision, Mission & PEOs among the stakeholder (3)					
1.3	Establish consistency of PEOs with Mission of the Department	5	A. Preparation of a matrix of PEOs and elements of Mission statement (2)					
			B. Consistency/justification of co-relation parameters of the above matrix (3)					
1.4	Establish the correction between the courses and the POs & PSOs	10	A. Evidence of COs being defined for every course (2)					
			B. Availability of COs embedded in the syllabus (2)					
			C. Explanation of course articulation matrix table to be ascertained (2)					
			D. Explanation of program articulation matrix tables to be ascertained (4)					

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SN	Sub Criteria	Max. Marks	Evaluation Guidelines (Marks)	Marks Awarded		Overall		Observations of Evaluators (Provide Justifications/ Reasons)
				Marks	Total	Marks	Grade (Y, C, W, D)	
1.5	Attainment of Course Outcomes	25						
1.5.1	Describe the assessment tools and processes used to gather the data upon which the evaluation of Course Outcome is based	5	A. List of assessment processes (1)					
			B. The quality /relevance of assessment processes & tools used (4)					
1.5.2	Record the attainment of Course Outcomes of all courses with respect to set attainment levels	20	A. Verification attainment levels as per the bench mark set for all courses (20)					
1.6	Attainment of Program Outcomes and Program Specific Outcomes	25						
1.6.1	Describe assessment tools and processes used for assessing the attainment of each of the POs & PSOs	5	A. List of assessment tools & processes (2)					
			B. The quality/relevance of assessment tools/processes used (3)					
1.6.2	Provide results of evaluation of each PO & PSO	20	A. Verification of documents, results and level of attainment of each PO/PSO (15)					
			B. Overall levels of attainment (5)					
1.7	Evidence of Solving Complex Engineering Programs	25	A. Verification of documents related to mini projects/major projects/term projects/independent study/problem-based learning approach adopted or any other activities conducted specifically which reflect the solving of complex engineering problems (25)					
Total of Criterion 1:		100	Overall Marks and Grade for Criterion 1:					

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Criterion 2: Program Curriculum and Teaching – Learning Processes (75)

SN	Sub Criteria	Max. Marks	Evaluation Guidelines (Marks)	Marks Awarded		Overall		Observations of Evaluators (Provide Justifications/ Reasons)
				Marks	Total	Marks	Grade (Y,C,W,D)	
2.1	Program Curriculum	15						
2.1.1	Structure of the curriculum	5	Refer to SAR: Expectation in 2.1.1 is that the curriculum is well balanced & appropriate for a Degree program (5)					
2.1.2	State the process used to identify extent of compliance of the curriculum for attaining the Program Outcomes (POs) & Program Specific Outcomes (PSOs)	10	Process used to identify extent of compliance of the curriculum for attaining POs & PSOs (10)					
2.2	Teaching-Learning Processes	60						
2.2.1	Describe the Process followed to improve quality of Teaching Learning	15	A. Adherence to Academic Calendar (2)					
			B. Pedagogical initiatives (2)					
			C. Methodologies to support weak students and encourage bright students (2)					
			D. Quality of classroom teaching (Observation in a Class) (2)					
			E. Conduct of experiments (Observation in Lab) (2)					
			F. Continuous Assessment in the laboratory (3)					
			G. Student feedback on teaching learning process and actions taken (2)					
2.2.2	Quality of end semester examination, internal semester question papers, assignments and evaluation	15	A. Process for internal semester question paper setting, evaluation and effective process implementation (3)					
			B. Process to ensure questions from outcomes/learning levels perspective (2)					

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			C. Evidence of COs coverage in class test / mid-term tests (5)					
			D. Quality of Assignment and its relevance to COs (5)					
SN	Sub Criteria	Max. Marks	Evaluation Guidelines (Marks)	Marks Awarded		Overall		Observations of Evaluators (Provide Justifications/ Reasons)
				Marks	Total	Marks	Grade (Y,C,W,D)	
2.2.3	Quality of student projects	15	A. Identification of projects and allocation methodology to faculty members (1)					
			B. Types and relevance of the projects and their contribution towards attainment of POs and PSOs (2)					
			C. Process related to Industry (2)					
			D. Process for monitoring and evaluation (2)					
			E. Process to assess individual and team performance (2)					
			F. Quality of completed projects/working prototypes (4)					
			G. Evidences of papers published /Awards received by projects etc. (2)					
2.2.4	Initiatives related to industry interaction/ industry / internship/summer training	10	A. Industry supported laboratories (2)					
			B. Industry involvement in the curriculum design and in partial delivery of any regular courses for students (2)					
			C. Industrial /internship /summer training of more than two weeks and post training Assessment (2)					
			D. Impact analysis of industry institute interaction and industry training and actions taken there of (2)					
			E. Student feedback on initiative (2)					

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2.5	Initiatives related the new education policy	5	Initiatives towards the new education policy (5)								
Total of Criterion 2:		75	Overall Marks and Grade for Criterion 2:								
Criterion 3: Students' Performance (75)											
SN	Sub Criteria	Max. Marks	Evaluation Guidelines(Marks)	Marks Awarded		Overall		Observations of Evaluators (Provide Justifications/ Reasons)			
				Marks	Total	Marks	Grade (Y,C,W,D)				
3.1	Enrolment Ratio	15	A. $\geq 90\%$ students enrolled at the First Year Level on average basis during the previous three academic years starting from current academic year (15)						CAY	CAYm1	CAYm2
			B. $\geq 80\%$ students enrolled at the First Year Level on average basis during the previous three academic years starting from current academic year (12)					Sanctioned intake			
			C. $\geq 70\%$ students enrolled at the First Year Level on average basis during the previous three academic years starting from current academic year (10)					Students enrolled at first year level			
			D. $\geq 60\%$ students enrolled at the First Year Level on average basis during the previous three academic years starting from current academic year (8)					Enrolment ratio			
			E. Otherwise '0'					Average enrolment ratio (ER) for past 3 years			
Comments (if any): ❖											
3.2	Success Rate in the stipulated period of the program	15									
3.2.1	Success rate without backlogs in any Semester/year of study	10	SI= (Number of students, who graduated from the program without backlog)/(Number of students admitted in the first year						LYG	LYGm1	LYGm2

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	Without Backlog means: No repeat(s) in any course in semester/ year of study		of that batch and admitted in 2 nd year via lateral entry and separate division, if applicable). Average SI = Mean of success index (SI) for past three batches Success rate without backlogs in any year of study = 10 × Average SI					Success Index (SI)			
								Average Success Index (SI) for past 3 years			
								Comments (if any): ❖			
SN	Sub Criteria	Max. Marks	Evaluation Guidelines (Marks)	Marks Awarded		Overall		Observations of Evaluators (Provide Justifications/ Reasons)			
				Marks	Total	Marks	Grade (Y,C,W,D)				
3.2.2	Success rate in stipulated period (actual duration of the program) (Total of with backlog +without backlog)	5	SI= (Number of students who graduated from the program with backlog in the stipulated period of course duration)/(Number of students admitted in the first year of that batch and admitted in 2 nd year via lateral entry and separate division, if applicable) Average SI = mean of success index (SI) for past three batches Success rate= 5 × Average SI						LYG	LYGm1	LYGm2
								Success Index (SI)			
								Average Success Index (SI) for past 3 years			
								Comments (if any): ❖			
3.3	Academic Performance in Second Year	5	Academic Performance Level = 0.5 * Average API (Academic Performance Index) API = ((Mean of 2 nd Year Grade Point Average of all successful Students on a 10-point scale) or (Mean of the percentage of marks of all successful students in 2 nd Year / 10)) x (number of successful students / number of students appeared in the examination) Successful students are those who are permitted to proceed to the 3 rd year.						CAYm1	CAYm2	CAYm3
								API			
								Average API for past 3 years			
								Comments (if any): ❖			
3.4	Academic Performance in Third Year	5	Academic Performance Level =0.5* Average API (Academic Performance Index)						CAYm1	CAYm2	CAYm3
								API			

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			B. Participation of Students from the program (2)					
3.6.3	Participation in inter-institute events by students of the program of study (at other institutions)	5	A. Events within the state (1)					
			B. Events outside the state (1)					
			C. Prizes/awards received in such events (3)					
3.6.4	Participation in national/ International competitive events by students of the program of study	5	A. Participation in National competitive events (2)					
			B. Participation in International competitive events (3)					
Total of Criterion 3:		75	Overall Marks and Grade for Criterion 3:					

Criterion 4: Faculty Information and Contributions (100)

SN	Sub Criteria	Max. Marks	Evaluation Guidelines (Marks)	Marks Awarded		Overall		Observations of Evaluators (Provide Justifications/Reasons)
				Marks	Total	Marks	Grade (Y,C,W,D)	

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4.2	Faculty Proportion	Cadre	10	<p>Cadre Proportion Marks:</p> $\left[\frac{AF1}{RF1} + \frac{AF2 \times 0.6}{RF2} + \frac{AF3 \times 0.4}{RF3} \right] \times 5$ <ul style="list-style-type: none"> • If AF1 = AF2 = 0, then zero mark • Maximum marks to be limited if it exceeds 10(Refer calculation in SAR) 						<table border="1"> <thead> <tr> <th></th> <th>CAY</th> <th>CAYm1</th> <th>CAYm2</th> </tr> </thead> <tbody> <tr> <td>No.of Professors</td> <td></td> <td></td> <td></td> </tr> <tr> <td>No.of Associate Professors</td> <td></td> <td></td> <td></td> </tr> <tr> <td>No.of Assistant Professors</td> <td></td> <td></td> <td></td> </tr> </tbody> </table>		CAY	CAYm1	CAYm2	No.of Professors				No.of Associate Professors				No.of Assistant Professors			
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Comments (if any): ❖																										
4.3	Faculty Qualification		10	<p>FQ=[{10X +4Y}/F] where, X is no. of faculty with Ph.D., Y is no. of faculty with M.Tech, F is no. of faculty required to comply 1:20 Faculty Student ratio (no. of faculty and no. of students required to be calculated as per 4.1)</p>						<table border="1"> <thead> <tr> <th></th> <th>CAY</th> <th>CAYm1</th> <th>CAYm2</th> </tr> </thead> <tbody> <tr> <td>No.of Ph.D holders</td> <td></td> <td></td> <td></td> </tr> <tr> <td>No.of M.Tech/ME holders</td> <td></td> <td></td> <td></td> </tr> </tbody> </table>		CAY	CAYm1	CAYm2	No.of Ph.D holders				No.of M.Tech/ME holders							
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Comments (if any): ❖																										
4.4	Faculty Retention		5	<p>A. ≥90% of required Faculties retained during the period of assessment keeping CAYm2 as base year (5) B. ≥75% of required Faculties retained during the period of assessment keeping CAYm2 as base year (4) C. ≥60% of required Faculties retained during the period of assessment keeping CAYm2 as base year (3) D. ≥50% of required Faculties retained during the period of assessment keeping CAYm2 as base year (2) E. Otherwise (0)</p>						<table border="1"> <thead> <tr> <th></th> <th>CAY</th> <th>CAYm1</th> </tr> </thead> <tbody> <tr> <td>No.of Faculty Retained</td> <td></td> <td></td> </tr> <tr> <td>Total No.of Required Faculty in CAYm2</td> <td></td> <td></td> </tr> <tr> <td>Percentage of faculty retained</td> <td></td> <td></td> </tr> <tr> <td>Average faculty retained for past 2 years</td> <td></td> <td></td> </tr> </tbody> </table>		CAY	CAYm1	No.of Faculty Retained			Total No.of Required Faculty in CAYm2			Percentage of faculty retained			Average faculty retained for past 2 years			
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Comments (if any): ❖																										
4.5	Faculty competencies correlation in to curriculum		5	<p>A. Specialization B. Research publications C. Course development D. Other relevant points</p>																						
SN	Sub Criteria	Max. Marks	Evaluation Guidelines (Marks)	Marks Awarded		Overall		Observations of Evaluators (Provide Justifications/Reasons)																		
				Marks	Total	Marks	Grade (Y,C,W,D)																			

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Criterion 5: Resource (75)								
SN	Sub Criteria	Max. Marks	Evaluation Guidelines (Marks)	Marks Awarded		Overall		Observations of Evaluators (Provide Justifications/Reasons)
				Marks	Total	Marks	Grade (Y,C,W,D)	
5.1	Adequate and well-equipped laboratories, and technical manpower	25	A. Adequate well-equipped laboratories to run all the program-specific curriculum (15)					
			B. Availability of adequate and qualified technical supporting staff (10)					
5.2	Laboratories: Maintenance and overall ambience	5	Maintenance and overall ambience (5)					
5.3	Safety measures in laboratories	5	Safety measures in laboratories (5)					
5.4	Project laboratory	15	Facilities & Utilization (15)					
5.5	Feedback analysis and reward/corrective measures taken, if any	5	A. Feedback collected for all courses: YES/NO (1)					
			B. Feedback collection process (1)					
			C. Average Percentage of students who participate (1)					
			D. Feedback analysis process (1)					
			E. Number of corrective actions taken (1)					

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SN	Sub Criteria	Max. Marks	Evaluation Guidelines (Marks)	Marks Awarded		Overall		Observations of Evaluators (Provide Justifications/ Reasons)
				Marks	Total	Marks	Grade (Y,C,W,D)	
5.6	Program Specific Budget Allocation, Utilization	10						
5.6.1	Adequacy of Budget allocation	5	A. Quantum of budget allocation for three years (3) B. Justification of budget allocated for three years (2)					
5.6.2	Utilization of allocated funds	5	A. Budget utilization for three years (5)					
5.7	Library and Internet	10						
5.7.1	Quality of learning resource (hard/soft)	6	A. Availability of relevant learning resource including e-resource and digital library (4) B. Accessibility to students (1) C. Support for self-learning (1)					
5.7.2	Internet	4	A. Available bandwidth and Wi-Fi availability (2) B. Internet access in labs, classrooms, library and offices of all Departments and Security mechanism (2)					
Total of Criterion 5:		75	Overall Marks and Grade for Criterion 5:					

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Criterion 6: Continuous Improvement (75)								
SN	Sub Criteria	Max. Marks	Evaluation Guidelines (Marks)	Marks Awarded		Overall		Observations of Evaluators (Provide Justifications/ Reasons)
				Marks	Total	Marks	Grade (Y,C,W,D)	
6.1	Actions taken based on the results of evaluation of each of the POs and PSOs	30	A. Documentation of POs and PSOs attainment levels (15)					
			B. Identification of gaps/short falls (5)					
			C. Plan of action to bridge the gap and its Implementation (10)					
6.2	Academic Audit and actions taken during the period of Assessment	10	Assessment shall be based on conduct and actions taken in relation to continuous improvement (10)					
6.3	Improvement in Placement, Higher Studies and Entrepreneurship	15	A. Assessment is based on improvement in: (Refer placement index 3.5) (Marks to be given proportionately considering nos. in the base year CAYm3) Improvement in Placement numbers, quality, core hiring industry and pay packages (5)					
			B. Improvement in Higher Studies admissions (5)					
			C. Improvement in number of Entrepreneurs (5)					
6.4	Improvement in the quality of students admitted to the program	10	Assessment is based on improvement in terms of ranks/score in qualifying state level/national level entrances tests, percentage Physics, Chemistry and Mathematics marks in 12th Standard and percentage marks of the lateral entry students (10)					
6.5	Remedial action taken on the observations made during last accreditation visit /New initiatives taken/New Facilities Introduced /Improvement made after last visit	10	New initiatives taken/New Facilities Introduced/Improvement made after last visit. (10)					
Total of Criterion 6:		75	Overall Marks and Grade for Criterion 6:					

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