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

Name of the Institution	:
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Name of the Program :

Criterion 1: Vision, Mission and Program Educational Objectives (50)

SN	Sub Criteria	Max. Marks	Evaluation Guidelines (Marks)	Ma Awa		O	verall	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 statements of the Department (1) B. Appropriateness/Relevance of the Statements (2)		-			
			C. Consistency of the Department statements with the Institute statements (2)					
1.2	State the Program Educational Objectives (PEOs)	5	Program Educational Objectives (3 to 5) (5) Availability & correctness					
1.3	1.3 Indicate where and how the Vision, Mission and PEOs are published and disseminated among stakeholders		A. Adequacy in respect of publication & dissemination (3) B. Process of dissemination among stakeholders (3)		-			
			C. Extent of awareness of Vision, Mission & PEOs among the stakeholder (9)		_			
1.4	State the process for defining the Vision and Mission of the Department,	15	A. Description of process for defining the Vision, Mission of the Department (7)					
	and PEOs of the program		B. Description of process for defining the PEOs of the program (8)					
1.5	Establish consistency of PEOs with Mission of the	10	A. Preparation of a matrix of mapping PEOs and elements of Mission statement (5)					
	Department		B. Consistency/justification of co-relation parameters of the above matrix (5)					
Total	of Criterion 1:	Overall Marks and Grade	e for Crite	erion 1:				

Criterion 2: Program	Curriculum and Teaching -	- Learning Processes (100)
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SN	Sub Criteria	Max. Marks	Evaluation Guidelines (Marks)	Ma Awa	_	0	verall	Observations of Evaluators (Provide Justifications/ Reasons)
				Marks	Total	Marks	Grade (Y,C,W,D)	
2.1	Program Curriculum	30						
2.1.1	State the process for designing the program curriculum	10	Process used to demonstrate how the program curriculum is evolved and periodically reviewed considering the POs and PSOs. Also consider the involvement of the Industry					
2.1.2	Structure of the Curriculum	5	Refer to SAR: Expectation in 2.1.2 & 2.1.3 is that the curriculum is well balanced structure & appropriate for a degree program					
2.1.3	State the components of the curriculum	5	Refer to SAR: Expectation in 2.1.2 & 2.1.3 is that the curriculum is well balanced structure & appropriate for a degree program					
2.1.4	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 curriculum for attaining POs & PSOs					
2.2	Teaching-Learning Processes	70						
2.2.1	Describe the Process followed to improve quality of Teaching	15	A. Adherence to Academic Calendar (3)					
	Learning		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)					

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)	_ subtilications, incusons,
2.2.2	Quality of internal semester question papers, assignments	15	A. Process for internal semester question paper setting, evaluation and effective process implementation (3)					
	and evaluation		B. Process to ensure questions from outcomes/learning levels perspective (2)					
			C. Evidence of COs coverage in class test / mid-term tests (5)					
			D. Quality of Assignment and its relevance to COs (5)					
2.2.3	Quality of student projects	20	A. Identification of projects and allocation methodology to Faculty (2)					
			B. Types and relevance of the projects and their contribution towards attainment of POs and PSOs (2)					
			C. Project related to Industry (3)					
			D. Process for monitoring and evaluation (2) E. Process to assess individual and team		- -			
			performance (3)					
			F. Quality of completed projects/working prototypes (5)					
			G. Evidences of papers published /Awards received by projects etc. (3)					
2.2.4	Initiatives related to industry interaction.	10	A. Industry supported laboratories (2)					
	industry interaction.		B. Industry involvement in the program curriculum (3)					
			C. Industry involvement in partial delivery of any regular courses for students (3)					
			D. Impact analysis of industry institute interaction and actions taken thereof (2)					
2.2.5	Initiatives related to industry internship/	10	A. Industrial training/tours for students (2)					
	summer training		B. Industrial /internship /summer training of more than two weeks and post training Assessment (3)					
			C. Impact analysis of industrial training (2)					
			D. Student feedback on initiative (3)					
Total	of Criterion 2:	100	Overall Marks and Gr	ade for (Criterion 2:			

SN	Sub Criteria	Max. Marks	Evaluation Guidelines (Marks)	Marks	Awarded	(Overall	Observations of Evaluators (Provide Justifications/ Reasons)
		l lai ko		Marks	Total	Marks	Grade (Y,C,W,D)	_ sustained, reasons,
3.1	Establish the correlation between	25	A. Evidence of COs being defined for every course (5)					
	the courses and the POs & PSOs		B. Availability of COs embedded in the syllabi (5)					
			C. Explanation of Course Articulation Matrix table to be ascertained (5)					
			D. Explanation of Program Articulation Matrix tables to be ascertained (10)					
3.2	Attainment of Course Outcomes	75						
3.2.1	Describe the assessment processes	10	A. List of assessment processes (2)					
	used to gather the data upon which the evaluation of Course Outcome is based		B. The quality /relevance of assessment processes & tools used (8)					
3.2.2	Record the attainment of Course Outcomes of all courses with respect to set attainment levels	65	Verification attainment levels as per the bench mark set for all courses (65)			7		
3.3	Attainment of Program Outcomes and Program Specific Outcomes	75						
3.3.1	Describe assessment tools and processes	10	A. List of assessment tools & processes (5)					
	used for assessing the attainment of each of the POs & PSOs		B. The quality/relevance of assessment tools/processes used (5)					
3.3.2	Provide results of evaluation of each PO & PSO	65	A. Verification of documents, results and level of attainment of each PO/PSO(50)					
			B. Overall levels of attainment (15)					
Total o	of Criterion 3:	175	Overall Marks and Gr	ade for C	riterion 3:			

SN	Sub Criteria	Max. Marks	Evaluation Guidelines (Marks)	Marks Av	arded	•	Overall	Observations of Evaluators (Provi Justifications/ Reasons)			
				Marks	Total	Marks	Grade (Y,C,W,D)				
4.1	Enrolment Ratio	20	 A. >=90% students enrolled at the First Year Level on average basis during the previous three academic years starting from current academic year (20) B. >=80% students enrolled at the First Year Level on average basis during the previous three academic years starting from current academic year (18) C. >=70% students enrolled at the First Year Level on average basis during the previous three academic years starting from current academic years starting from current academic year (16) D. >=60% students enrolled at the First Year Level on average basis during the previous three academic years starting from current academic years starting from current academic years starting from current academic year (14) E. Otherwise '0' 				(1,C,W,D)	Sanctioned intake Students enrolled at first year level Enrolment ratio Average enrolment ratio (ER) Comments (if any):		CAYm1	CAYm2
4.2	Success Rate in the stipulated period of the program	20									
4.2.1	Success rate without backlogs in any Semester/year of study Without Backlog means no compartment or failures in any semester/year of study	15	SI= (Number of students who graduated from the program without backlog)/(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 without backlogs in any year of study = 15×Average SI					Success Index (SI) Average Success Index (SI) Comments (if any):	LYG	Gm1 I	LYGm2

SN	Sub Criteria	Max. Marks	Evaluation Guidelines (Marks)	_	rks rded	C	verall	Observations Justifications	/aluators)	(Provide
				Marks	Total	Marks	Grade (Y,C,W,D)	-		
4.2.2	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					Success Index (SI) Average Success Index (SI) Comments (if a	LYGm1	LYGm2
4.3	Academic Performance in Second Year	10	Academic Performance Level = 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 Second Year/10)) x (number of successful students /students appeared in the examination)					Average API for Comments (if a	 ears:	
4.4	Placement, Higher studies and Entrepreneurship	30	Assessment Points=30×average placement, i.e., (P1+P2+P3)/3 Placement index (P)=[(x+y+z)/N] where, x=Number of students placed in companies or Government sector through on/off campus recruitment y=Number of students admitted to higher studies with valid qualifying scores (GATE or equivalent State or National level tests, GRE, GMAT etc.) z=No. of students turned entrepreneur in engineering/technology. N =Total number of final year students					Placement Index Average Placement Index for past 3 years Comments (if a	CAYm2	CAYm3

SN	Sub Criteria	Max. Marks	Evaluation Guidelines (Marks)	Marks	s Awarded	C	verall	Observations of Evaluators (Provide Justifications/ Reasons)
				Marks	Total	Marks	Grade (Y,C,W,D)	
4.5	Professional Activities	20						
4.5.1	societies/chapters	5	A. Availability & activities of professional societies/chapters (3)					
	and organizing engineering events		B. Number, quality of engineering events (organized at Institute level-Institute/State/National/International) (2)					
4.5.2	Publication of technical magazines, newsletters, etc.	5	A. Quality & Relevance of the contents and Print Material (3)					
			B. Participation of Students from the program (2)					
4.5.3	Participation in inter-institute	10	A. Events within the state (2)					
	events by students of the program of		B. Events outside the state (3)					
	study (at other institutions)		C. Prizes/awards received in such events (5)					
Total	 of Criterion 4:	100	Overall Marks and	l d Grade fo	 r Criterion 4:	:		

SN	Sub Criteria	Max. Marks	Evaluation Guidelines (Marks)	Ma Awa	rks rded	0	verall	Observations of Evalua	ators (Pro	vide Justifica	tions/ Reasons)
				Marks	Total	Marks	Grade (Y,C,W,D)				
5.1	Student- Faculty Ratio (SFR)	20	Marks to be given proportionally from a maximum of 20 to a minimum of 10 for average SFR between 15:1 to 25:1, and zero for average SFR higher than 25:1. Marks distribution given as below					Total No.of students(2,3,4 years) in UG programs in Dept. Total No.of students (1,2 years) in PG programs in Dept. S=Number of Students in the Department = UG1 + UG2 + +UGn + PG1 +PGn F = Total no.of faculty members in the Dept.(excluding first year faculty) SFR Average SFR for past 3 years Comments (if any): ❖	CAY	CAYm1	CAYm2

SN	Sub Criteria	Max. Marks	Evaluation Guidelines (Marks)		rks irded	0	verall	Observations of Ev	aluators (Provid	e Justific	cations/	Reasons)
				Marks	Total	Marks	Grade (Y,C,W,D)					
5.2	Faculty Cadre Proportion	20	Cadre Proportion Marks: AF1 + AF2x0.6 + AF3x0.4 x10						CAY	CAYm1		CAYm2
			• If AF1 = AF2 = 0, then zero mark • Maximum marks to be limited if it					No.of Professors No.of Associate Professors No.of Assistant Professors				
			exceeds 25(Refer calculation in SAR)					Comments (if any):				
5.3	Faculty Qualification	20	FQ=2.0x[{10X +4Y}/F] where, X is no. of faculty with Ph.D.,						CAY	CAYm1	CAYm	12
			Y is no. of faculty with M.Tech, F is no. of faculty required to comply					No.of Ph.D: No.of M.Tech:				
			1:20 Faculty Student ratio (no. of faculty and no. of students					Faculty Qualification (FQ) Average FQ for				
			required to be calculated as per 5.1)					past 3 years Comments (if any):				
5.4	Faculty	10	A. ≥ 90% of required Faculties					*		CAY	CA	Ym1
	Retention		retained during the period of assessment keeping CAYm2 as base year (10)					No.of Faculty Retain	ned			
			B. ≥ 75% of required Faculties retained during the period of assessment keeping CAYm2 as					Total No.of Faculty Percentage of facult	•			
			base year (8) C. ≥ 60% of required Faculties retained during the period of assessment keeping CAYm2 as					Average faculty re years	etained for past	2		
			base year (6) D. ≥ 50% of required Faculties retained during the period of assessment keeping CAYm2 as					Comments (if any):				
			base year (4) E. Otherwise (0)									

SN	Sub Criteria	Max. Marks	Evaluation Guidelines (Marks)	Mai Awai	Ov	verall	Observations of Evalua Reasons)	tors (Pro	vide Justi	fications/
				Marks	Marks	Grade (Y,C,W,D)	,			
5.5	Faculty competencies in correlation to Program	10	A. Specialization							
	Specific Criteria		B. Research Publications							
			C. Course Developments							
			D. Other relevant points							
5.6	Innovations by the Faculty in Teaching and Learning	10	A. Statement of clear goals, use of appropriate methods, significance of results, effective presentation and reflective presentation (4)							
			B. Availability of work on Institute Website (2)							
			C. Availability of work for peer review and critique (2)							
			D. Reproducibility and Reusability by other scholars for further development (2)							
5.7	Faculty as participants in Faculty development /training activities / STTPs	15	For each year: Assessment= 3×Sum/0.5RF					CAYm1	CAYm2	CAYm3
	,		Average assessment over three years starting from				Assessment points are:			
			CAYm1 (Marks limited to 15)				Average assessment points 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)				
5.8	Research and Development	75									
5.8.1	Academic Research	20	A. Number of quality publications in refereed/ SCI Journals, citations, Books/Book Chapters etc. (15) B. Ph.D awarded during the assessment period while working in institute (5)								
5.8.2	Sponsored Research	20	Funded research from outside; Cumulative CAYm1, CAYm2, CAYm3: Amount >50 Lakhs- 20 Marks Amount>40 Lakhs and <=50 Lakhs - 15 Marks Amount >30 Lakhs and <= 40 Lakhs - 10 Marks Amount >= 15 Lakhs and <= 30 Lakhs - 5 Marks Amount < 15 Lakhs - 0 Mark					No.of projects Amount (Rs.In Lakhs) Total amount for past 3 years (Rs.In Lakhs) Comments (if any):	CAYm1	CAYm2	CAYm3
5.8.3	Development Activities	15	A. Product development B. Research laboratories C. Instructional materials D. Working models/ charts/monograms etc.								
5.8.4	Consultancy (From Industry)	20	Consultancy; Cumulative CAYm1, CAYm2, CAYm3: Amount >10 Lakhs- 20 Marks Amount>8 Lakhs and <=10 Lakhs - 15 Marks Amount >6 Lakhs and <8 Lakhs - 10 Marks Amount >=4 Lakhs and <6 Lakhs - 5 Marks Amount >=2 Lakhs and <4 Lakhs - 2 Marks Amount < 2 Lakhs - 0 Mark					No.of projects Amount (Rs.In Lakhs) Total amount for past 3 years (Rs.In Lakhs) Comments (if any):	CAYm1	CAYm2	CAYm3

SN	Sub Criteria	Max. Marks	Evaluation Guidelines (Marks)	Marks Awarded		Overall		Observations of Evaluators (Provide Justific Reasons)			Justifications/
				Marks	Total	Marks	Grade (Y,C,W,D)				
5.9	Faculty Performance Appraisal and Development System (FPADS)	10	A. A well-defined performance appraisal and development system instituted for all the assessment years (5)								
			B. Its implementation and effectiveness (5)								
5.10	Visiting/Adjunct/Emeritus Faculty etc.	10	A. Provision of Visiting /Adjunct/Emeritus faculty etc.(1)						CAY/m1	CAYm1/m2	CAYm2/m3
								No.of hours			
			B. Minimum 50 hours per year interaction per year to obtain three marks :3x3=9					Comments (if	 any):		
Total o	f Criterion 5:	200	Overall Marks and Grade	for Crite	rion 5:						

SN	Sub Criteria	Max. Marks	Evaluation Guidelines (Marks)	Marks Awarded		Overall		Observations of Evaluators Justifications/ Reasons)	(Provide
				Marks	Total	Marks	Grade (Y,C,W,D)		
6.1	Adequate and well- equipped laboratories, and technical manpower	40	A. Adequate well-equipped laboratories to run all the program-specific curriculum (25)						
			B. Availability of adequate and qualified technical supporting staff (15)						
6.2	Laboratories: Maintenance and overall ambience	10	Maintenance and overall ambience (10)						
6.3	Safety measures in laboratories	10	Safety measures in laboratories (10)						
6.4	Project laboratory/ facilities	20	Facilities & Utilization (20)						
Tata'	of Criterion 6:	80	Overall Marks and	Cup do 6-	Cultanian C				

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)	
7.1	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)					
7.2	Academic Audit and actions taken during the period of Assessment	15	Assessment shall be based on conduct and actions taken in relation to continuous improvement (15)					
7.3	Improvement in Placement, Higher Studies and Entrepreneurship	10	A. Improvement in Placements numbers, quality, core hiring industry and pay packages (5)					
			B. Improvement in Higher Studies admissions (3)					
			C. Improvement in number of Entrepreneurs (2)					
7.4	Improvement in the quality of students admitted to the program	20	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					
Total	of Criterion 7:	75	Overall Marks and G	rade for C	criterion 7:			