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

Name o	of the	Institution	:
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Name of the Program :

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

SN	Sub Criteria Max. Evaluation Guidelines (Marks) Marks Marks			0	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	5	A. Availability of statements of the Department (1)					
	Institute		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	Indicate where and how the Vision, Mission and PEOs are	15	A. Adequacy in respect of publication & dissemination (3)					
	published and disseminated among stakeholders		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	15	A. Description of process for defining the Vision, Mission of the Department (7)					
	Mission of the Department, 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:	50	Overall Marks and Grad	e for Crite	erion 1:			

Criterion 2: Program Curriculum and Teaching – Learning Processes (100)

SN	Sub Criteria	Max. Marks	Evaluation Guidelines (Marks)	Ma Awa	_	C	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 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)					

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	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)	
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)					
	mudstry 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	10	A. Industrial training/tours for students (2)					

	industry internship/ 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 Grade for Criterion 2:				

Criterion 3: Course Outcomes and Program Outcomes (175)

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	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 used to gather the data upon which the evaluation of Course Outcome is based	10	A. List of assessment processes (2) B. The quality /relevance of assessment processes & tools used (8)					
3.2.2		65	Verification attainment levels as per the bench mark set for all courses (65)					
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		B. The quality/relevance of assessment tools/processes used					

	the POs & PSOs		(5)				
3.3.2	Provide results of evaluation of each PO & PSO		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 Gra	ide for Criterion 3:			

Criterion 4: Students' Performance (100)

SN	Sub Criteria	Max. Marks	Evaluation Guidelines (Marks)	Marks Av	varded		Overall	Observations of Justifications/ Reason		uators	(Provide
				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 year 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' 					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					1				
4.2.1	Success rate without backlogs in any Semester/year of study Without Backlog	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					Success Index (SI) Average	LYG	im1 L	YGm2

means no compartment or failures in any semester/year of study Mathematical applicable	Success Index (SI) Comments (if any):
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SN	Sub Criteria	Max. Marks	Evaluation Guidelines (Marks)		rks rded	0	verall	Observation Justification		Evaluators ons)	(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	LYG	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 All Comments (•	3 years:	

4.4	Placement, Higher studies and Entrepreneurship	Assessment Points=30×average placement, i.e., (P1+P2+P3)/3			CAYm1	CAYm2	CAYm3
		Placement index $(P)=[(x+y+z)/N]$ where,		Placement Index			
		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.		Average Placement Index for past 3 years Comments (if ar	ny):		
		N =Total number of final year students					

SN	Sub Criteria	Max. Marks	Evaluation Guidelines (Marks)	Marks	Awarded	0	verall	Observations of Evaluators (Provide Justifications/ Reasons)
				Marks	Total	Marks	Grade (Y,C,W,D)	,
4.5	Professional Activities	20				•	-	
4.5.1	Professional societies/chapters and organizing	5	A. Availability & activities of professional societies/chapters (3)					
	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 events by students	10	A. Events within the state (2)					
	of the program of study (at other		B. Events outside the state (3)					

	institutions)							
			C. Prizes/awards received in such events (5)					
Total	of Criterion 4:	100	Overall Marks and	Grade for	Criterion 4:			

SN	Sub Criteria	Max. Marks	Evaluation Guidelines (Marks)	Mai Awai	_	0	verall	Observations of Evalua	tors (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 all UG programs in Department*. Total No.of students (1,2 years) in PG programs in Dept.	CAY	CAYm1	CAYm2

			Note: All the faculty whether regular or contractual (except part-time or hourly based), will be considered. The contractual faculty appointed with any terminology whatsoever, who have taught for 2 consecutive semesters with or without break between the 2 semesters in corresponding academic year on full-time basis shall be considered for the purpose of calculation in the faculty student ratio. However, following will be ensured in case of contractual faculty: 1. Shall have the AICTE prescribed qualifications and experience. 2. Shall be appointed on full time basis and worked for consecutive two semesters with or without break between the 2 semesters during the particular academic year under consideration. 3. Should have gone through an appropriate process of selection and the records of the same shall be made available to the visiting team during NBA visit.					S=Number of Students in the Department = UG1 + UG2 + +UGn + PG: + PGn F = Total no.of faculty members in the Dept.(excluding first year faculty) SFR Average SFR for past 3 years *Note: No.of students entry students (Refer comments (if any):	e		dmitted lateral
SN	Sub Criteria	Max. Marks	Evaluation Guidelines (Marks)		rks rded	0	verall	Observations of Eva	aluators (Pi	rovide Justificatio	ons/ Reasons)
				Marks	Total	Marks	Grade (Y,C,W,D)				
5.2	Faculty Cadre Proportion	20	Cadre Proportion Marks: AF1 + AF2x0.6 + AF3x0.4 x10 RF1 + AF2 + AF3x0.4 RF3 • If AF1 = AF2 = 0, then zero mark • Maximum marks to be limited if it exceeds 25(Refer calculation in SAR)					No.of Professors No.of Associate Professors No.of Assistant Professors Comments (if any):	CAY	CAYm1	CAYm2

5.3	Faculty Qualification	20	X is r Y is r F is 1:20 (no.	no. of facul no. of facul no. of facul Faculty St of faculty	+4Y}/F] where, Ity with Ph.D., Ity with M.Tech, ulty required to comply cudent ratio v and no. of students calculated as per 5.1)					No.of Ph.D: No.of M.Tech: Faculty Qualification (FQ) Average FQ for past 3 years Comments (if any):	CAY	AYm1	CAYm2
5.4	Faculty Retention	10	B. 2 th C. 2 th D. 2	retained (assessmen base year ≥ 75% retained (assessmen base year ≥ 60% retained (assessmen base year ≥ 50% retained (assessmen base year ≥ 50%	of required Faculties during the period of t keeping CAYm2 as (8) of required Faculties during the period of t keeping CAYm2 as (6) of required Faculties during the period of t keeping CAYm2 as (4)					No.of Faculty Retain Total No.of Required CAYm2 Percentage of facult Average parental retained for past 2 Comments (if any):	ired Faculty in y retained ge of faculty		CAYm1
SN	Sub Criteria		E. (Otherwise Max. Marks	(0) Evaluation Guidelines (Marks)	Mai		01	verall	Observations Reasons)	of Evaluators (Provide	Justifications/
						Marks	Total	Marks	Grad (Y,C,W	e			
5.5	Faculty compounts or relation Specific Criter	to Prog		10	A. SpecializationB. Research PublicationsC. Course DevelopmentsD. 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		For each year: Assessment= 3×Sum/0.5RF Average assessment over three years starting from CAYm1 (Marks limited to 15)			Assessment points are: Average assessment points for past 3 years Comments (if any):	CAYm1	CAYm2	CAYm3

SN	Sub Criteria	Max. Marks	Evaluation Guidelines (Marks)	Mar Awar	_		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)					

				Marks	Total	Marks	Grade (Y,C,W,D)				
SN	Sub Criteria	Max. Marks	Evaluation Guidelines (Marks)	Mar Awar	ded		verall	Observations of Evaluat Reasons)	ors (Prov	ide Justi	fications/
5.8.4	Consultancy (From Industry)	20	D. Working models/ charts/monograms etc. 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
5.8.2	Sponsored Research Development Activities	20	B. Ph.D awarded during the assessment period while working in institute (5) 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 A. Product development B. Research laboratories C. Instructional materials					No.of projects Amount (Rs.In Lakhs) Total amount for past 3 years (Rs.In Lakhs) Comments (if any):	CAYm1	CAYm2	CAYm3

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) B. Minimum 50 hours per year interaction per year to obtain three marks:3x3=9	No.of hours Comments (if a	CAY/m1	CAYm1/m2	CAYm2/m3
Total o	f Criterion 5:	200	Overall Marks and Grade for Criterion 5:				

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Criterion 6: Facilities and Technical Support (80)

SN	Sub Criteria	Max. Marks	Evaluation Guidelines (Marks)	Marks	Awarded	0\	erall	Observations of Evaluators (Provide Justifications/ Reasons)
				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)					
Total o	of Criterion 6:	80	Overall Marks and	Grade for	Criterion 6:			

Criterion 7: 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)	
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 Grade for Criterion 7:					