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: Course Outcomes and Program Outcomes (100)

SN	Sub Criteria	Max. Marks	Evaluation Guidelines (Marks)	Marks A	warded	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	5	A. Availability of vision and mission statements of the Department (1)					
	and Institute		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	5	A. Adequacy in respect of publication & dissemination (1)					
	published and disseminated among stakeholders		B. Process of dissemination among stakeholders (1)					
	Stancinoració		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	10	A. Evidence of COs being defined for every course (2)					
	the POs & PSOs		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)					

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	5	A. List of assessment processes (1)						
	the evaluation of Course Outcome is based		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	5	A. List of assessment tools & processes (2)						
	each of the POs & PSOs		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 Gra	ade for Cr	iterion 1:				

SN	Sub Criteria	Max. Marks	Evaluation Guidelines (Marks)	Ma Awa		Overall i		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	15	A. Adherence to Academic Calendar (2)					
	of Teaching 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)					
2.2.2	Quality of end semester examination, internal semester question papers,	15	A. Process for internal semester question paper setting, evaluation and effective process implementation (3)					
	assignments 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)					
SN	Sub Criteria	Max. Marks	Evaluation Guidelines (Marks)	Ma Awa		Ov	erall	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/	10	A. Industry supported laboratories (2)					
	industry / internship/summer training		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)					

2.5	Initiatives related the new education policy	5	Initiatives towards the new educa (5)	ation polic	У						
	Total of Criterion 2:	: 75	Overall Marks	and Grad	de for Cri	terion 2:					
Criter	on 3: Students' Performa	nce (75)									
SN		Max. Marks	Evaluation Guidelines(Marks)		rks rded	O	verall	Observations Justifications/ R	of Reasons)	Evaluators	(Provide
				Marks	Total	Marks	Grade (Y,C,W,D)				
3.1	Enrolment Ratio	15	A. >=90% students enrolled at the First Year Level on average basis during the						CAY	CAYm1	CAYm2
			previous three academic years starting from current					Sanctioned intake			
			academic year (15) B. >=80% students enrolled at the First Year Level on					Students enrolled at first year level			
			average basis during the previous three academic years starting from current					Enrolment ratio			
			academic year (12) C. >=70% students enrolled at					Average enrolment ratio (ER) for			
			the First Year Level on average basis during the previous three academic					past 3 years Comments (if any	<u> </u>):		
			years starting from current academic year (10)					*			
			D. >=60% students enrolled at the First Year Level on average basis during the								
			previous three academic years starting from current								
			academic year (8) E. Otherwise '0'								
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					LY	G	LYGm1	LYGm2
			students admitted in the first year								

SN	Without Backlog means: No repeat(s) in any course in semester/ year of study Sub Criteria) 1	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 Evaluation Guidelines (Marks)	_	irks irded	0	verali	Success Index (SI) Average Success Index (SI) for past 3 years Comments (if any): Observations or Reasons)		s (Provide 3	Justifications/
				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) Academic Performance in Second Year	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 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					Success Index (SI) Average Success Index (SI) for past 3 years Comments (if any API Average API for past 3 years Comments (if any in the success index (SI) for past 3 years Comments (if any in the success index (SI) in the success in the success index (SI) in the success in the succe	/): CAYm1	CAYm2	CAYm3
3.4	Academic Performance in Third Year	5	permitted to proceed to the 3 rd year. Academic Performance Level =0.5* Average API (Academic Performance Index)					API	CAYm1	CAYm2	CAYm3

UG Engineering Tier-I

API = ((Mean of 3 nd Year Grade Average of all successful Student a 10-point scale) or (Mean of percentage of marks of all succe students in 3 rd Year / 10)) x (nur of successful students /students appeared in the examination)	on the sful ber	Average API for past 3 years Comments (if any):
Successful students are those who permitted to proceed to the final		

SN	Sub Criteria	Max. Marks	Evaluation Guidelines (Marks)		rks irded	0	verall	Observations of E Reasons	valuators	(Provide	Justifications/
				Marks	Total	Marks	Grade (Y,C,W,D)				
3.5	Placement, Higher studies and Entrepreneurship	15	Assessment Points = 15 × average of three years of [(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 any):	CAYm1	CAYm2	CAYm3
3.6	Professional Activities	20					<u> </u>				
3.6.1	Professional societies/ chapters and organizing engineering events	5	A. Availability & activities of professional societies/chapters (3) B. Number, quality of engineering events(2) (organized at Institute level-Institute/State/National/International)								
3.6.2	Publication of technical magazines, newsletters, etc.	5	A. Quality & Relevance of the contents and Print Material (3)								

UG Engineering Tier-I

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

Criterion 4: Faculty Information and Contributions (100)

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

4.1	Student-Faculty Ratio	15	Marks to be given proportionally from		CAY	CAYm1	CAYm2
	(SFR)		a maximum of 15 to a minimum of 3				
			for average SFR between 20:1 to				
			25:1, and zero for average SFR higher	Total No.of			
			than 25:1. Marks distribution given as	students [†] (2,3,4			
			below	years) in UG			
			♦ <=2015 marks	programs in Dept.			
			♦ <=2112 marks	Total No.of			
				students [†] (1,2			
				years) in PG			
				programs in Dept.			
			❖ >250 mark	S=Number of			
				Students in the			
			Note: All the faculty whether regular	Department= UG1			
			or contractual (except Part- Time or	+ UG2 + +UGn +			
			hourly based), will be considered. The	PG1 +PGn			
			contractual faculty (doing away with	F=Total no.of			
			the terminology of visiting/adjunct	faculty members in			
			faculty, whatsoever) who have taught	the Dept.(excluding			
			for 2 consecutive semesters in the	first year faculty)			
			corresponding academic year on full	, , ,			
			time basis shall be considered for the	SFR			
			purpose of calculation in the Faculty				
			Student Ratio. However, following will	A CED for		<u> </u>	
			be ensured in case of contractual	Average SFR for			
			faculty:	past 3 years			
			4 CLUB - ATCTE	Note: Number of st	udents(†)=	Sanctioned	intake+ actual
			1. Shall have the AICTE prescribed	admitted lateral entry		Sanctionea	intake i detadi
			qualifications and experience.	damiced lateral entry	otauciito.		
			2. Shall be appointed on full time	Comments (if any):			
			basis and worked for consecutive	*			
			two 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	N	Sub Criteria	Max.	Evaluation Guidelines (Marks)		Marks Awarded		verall		of	Evaluators	(Provide	Justifications/
			Marks						Reasons)				ļ
					Marks	Total	Marks	Grade (Y,C,W,D)					
<u> </u>								(1,C,W,D)					

4.2	Faculty Cadre Proportion		AF1 + AF2x0.6 + AF3x0.4 x5 RF1 + AF2x0.6 + AF3x0.4 x5 If AF1 = AF2 = 0, then zero mark Maximum marks to be limited if it exceeds 10(Refer calculation in SAR)						No.of Professors No.of Associate Professors No.of Assistant Professors Comments (if any)	CAY	CAYm1	CAYm2
4.3	Faculty Qualification) 	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 complete to faculty Student ratio (no. of faculty and no. of studer required to be calculated as per 4.1)						No.of Ph.D holders No.of M.Tech/ ME holders Comments (if any) ❖	CAY	CAYm1	CAYm2
4.4	Faculty Retention	E C	 ≥90% of required Faculties retain during the period of assessme keeping CAYm2 as base year (5) ≥75% of required Faculties retain during the period of assessme keeping CAYm2 as base year (4) ≥60% of required Faculties retain during the period of assessme keeping CAYm2 as base year (3) ≥50% of required Faculties retain during the period of assessme keeping CAYm2 as base year (3) ≥50% of required Faculties retain during the period of assessme keeping CAYm2 as base year (2) Otherwise (0) 	ent ed ent ed ent					No.of Faculty Reta Total No.of Requ CAYm2 Percentage of faculty past 2 years Comments (if any)	uired Faculty in ulty retained retained for		CAYm1
4.5	Faculty competencies in correlation to curriculum	5 E	A. Specialization B. Research publications C. Course development D. Other relevant points									
SN	Sub Criteria	Max. Marks	Evaluation Guidelines (Marks)		Marks warded	d otal	Marl	Overall Grade (Y,C,W,D)	Observations of Reasons)	Evaluators (Provide .	Justifications/

4.6	Innovations by the Faculty in Teaching and Learning	5	A. Statement of clear goals, use of appropriate methods, significance of results, effective presentation (2) B. Availability of work on Institute Website (1) C. Availability of work for peer review and critique (1) D. Reproductivity and reusability by other scholars for further development (1)							
4.7	Faculty as participants in Faculty development /training activities /STTPs	10	For each year: Assessment = 2×Sum/0.5RF Average assessment over three years starting from CAYm1(Marks limited to 10)			Assessment poir Average ass points for past Comments (if any	essment 3 years	CAYm1	CAYm2	CAYm3
4.8	Research and Development	30			I	I				
4.8.1	Academic Research	10	A. Number of quality publications in refereed/SCI Journals, citations, Books/Book Chapters etc. (7) B. Ph.D awarded during the assessment period while working in the institute (3)			No. of Ph.Ds awarded No. of Scopus indexed papers published No. of Web of Science indexed papers published No. of other indexed papers published Comments (if any	CAYm1	CAYn	n2 CAYr	n3
SN	Sub Criteria	Max Mark		Marks Awarded		Dbservations of Reasons)	Evaluato	ors (Prov	ide Just	ifications/

				Marks	Total	Marks	Grade (Y,C,W,D)					
4.8.2	Sponsored Research	10	Funded research from outside ; Cumulative CAYm1, CAYm2, CAYm3: Amount>50 Lakhs- 10 Marks Amount>40 and ≤50 Lakhs-7 Marks Amount>=30 and ≤40 Lakhs-5 Marks Amount≥15 and ≤30 Lakhs-3 Marks Amount<15 Lakhs-0 Mark					Am (Rs To	of projects nount s.In Lakhs) tal amoui r past 3 yean nments (if an	rs	CAYm2	CAYm3
4.8.3	Development Activities	5	A. Product development B. Research laboratories C. Working models/ charts/monograms etc.									
4.8.4	Consultancy (From Industry)	5	Consultancy; Cumulative CAYm1, CAYm2, CAYm3: Amount >10 Lakhs - 5 Marks Amount ≤10 and ≥8 Lakhs-4 Marks Amount <8 and ≥6 Lakhs-3 Marks Amount <6 and ≥4 Lakhs -2 Marks Amount <4 and ≥2 Lakhs-1 Mark Amount <2 Lakhs - 0 Mark					Am (Rs	n. of projects nount s.In Lakhs) otal amou r past 3 yea nments (if any	rs	1 CAYm2	CAYm3
4.9	Faculty Performance Appraisal and Development System (FPADS)	5	A. A well-defined performance appraisal and development system instituted for all the assessment years (2) B. Its implementation and effectiveness (3)									
4.10	Visiting/Adjunct/Emeri tus Faculty etc.	5	Provision of Visiting /Adjunct/ Emeritus faculty etc. (1) Minimum 50 hours per year interaction (2 marks for last 2 years: 2x2=4)						No. of hours nments (if any	CAY/m1	CAYm1/m2	CAYm2/m3
	Total of Criterion 4:	100	Overall Marks and Grade	for Crite	erion 4:							

Criterion 5: Resource (75)

SN	Sub Criteria	Max. Marks	Evaluation Guidelines (Marks)	Marks	Awarded	0	verall	Observations Reasons)	of Evaluate	ors (Provide	Justifications/
				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)								

SN	Sub Criteria	Max. Marks	Evaluation Guidelines (Marks)	Marks	Awarded	O	verall	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		l		l		
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 Gr	ade for (Criterion 5:			

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)	,
6.1	the results of evaluation	30	A. Documentation of POs and PSOs attainment levels (15)					
	of each of the POs and PSOs		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 begiven 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 Gra	de for Cr	iterion 6:			