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

Name of the Institution :

Name of the Program :

SN	Sub Criteria	Max. Marks	Evaluation Guidelines (Marks)	Marks A	warded	Overall Marks	Observations of Evaluators (Provide Justifications/ Reasons
				Marks	Total		
1.1	State the Vision and Mission of the Department and	5	A. Availability of statements of the Department (1)				
	Institute	(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) Appropriateness				
1.3	Indicate where and how the Vision, Mission and PEOs are	10	A. Adequacy in respect of publication & dissemination (2)				
	published and disseminated among stakeholders		B. Process of dissemination among stakeholders (2)				
			C. Extent of awareness of Vision, Mission & PEOs among the stakeholder (6)				
1.4	State the process for defining the Vision and	25	A. Description of process for defining the Vision, Mission of the Department (10)				
	Mission of the Department, and PEOs of the program		B. Description of process for defining the PEOs of the program (15)				
1.5	Establish consistency of PEOs with Mission of the Department	15	A. Preparation of a matrix of mapping PEOs and elements of Mission statement (5)				
	• • • • •		B. Consistency/justification of co-relation parameters of the above matrix (10)				
Tatal	of Criterion 1:	60	Overall Ma	rks for Cr	iterion 1:		

Signature (Program Evaluator 1)

							UG Engineering Tier-II
Criterio	n 2: Program Curriculum and Te	aching –	Learning Processes (120)				
SN	Sub Criteria	Max. Marks	Evaluation Guidelines (Marks)	-	rks Irded	Overall Marks	Observations of Evaluators (Provide Justifications/ Reasons)
2.1	Program Curriculum	20		Marks	Total		
2.1.1	State the process used to identify extent of compliance of the University curriculum for attaining the Program	10	A. Process used to identify extent of compliance of University curriculum for attaining POs & PSOs (6)				
2.1.2	Outcomes (POs) & Program Specific Outcomes (PSOs), mention the identified curricular gaps, if any		B. List the curricular gaps for the attainment of defined POs & PSOs (4)				
2.1.2	State the delivery details of the content beyond the syllabus for POs and PSOs	10	A. Steps taken to get identified gaps included in the curriculum.(letter to university/BOS) (2)				
			 B. Delivery details of content beyond syllabus (5) C. Mapping of content beyond syllabus with the POs & PSOs (3) 		_		
2.2	Teaching-Learning Processes	100					
2.2.1	Describe the Process followed to improve quality of Teaching Learning	25	A. Adherence to Academic Calendar (3)B. Use of various instructional methods and pedagogical initiatives (3)				
			C. Methodologies to support weak students and encourage bright students (4)				
			D. Quality of classroom teaching (Observation in a Class) (3)E. Conduct of experiments (Observation in Lab)		_		
			(3) F. Continuous Assessment in the laboratory (3)		-		

	G. Student feedback on teaching learning process and actions taken (6)			
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SN	Sub Criteria	Max.	Evaluation Guidelines (Marks)	Marks A	warded	Overall	Observations of Evaluators (Provid
		Marks		Marks	Total	Marks	Justifications/ Reasons)
2.2.2	Quality of internal semester question papers, assignments and evaluation	20	 A. Process for internal semester question paper setting, evaluation and effective process implementation (5) B. Process to ensure questions from outcomes/learning levels perspective (5) C. Evidence of COs coverage in class test / mid-term tests (5) D. Quality of Assignment and its relevance to 		_		
2.2.3	Quality of student projects	25	COs (5) A. Identification of projects and allocation methodology to Faculty (3) B. Types and relevance of the projects and their contribution towards attainment of POs			_	
			and PSOs(5) C. Process for monitoring and evaluation (5) D. Process to assess individual and team		_		
			performance (5) E. Quality of completed projects/working prototypes (5) F. Evidences of papers published /Awards		_		
2.2.4	Initiatives related to industry interaction.	15	received by projects etc. (2)A. Industry supported laboratories (5)				
			 B. Industry involvement in the program design and partial delivery of any regular courses for students (5) C. Impact analysis of industry institute 		_		
			interaction and actions taken thereof (5)				
2.2.5	Initiatives related to industry internship/ summer training	15	A. Industrial training/tours for students (3)				
	,		B. Industrial /internship /summer training of more than two weeks and post training Assessment (4)				

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			C. Impact analysis of industrial training (4)				
			D. Student feedback on initiative (4)				
Total o	f Criterion 2:	120	Overall I	Marks for C	riterion 2	::	
Criterio	on 3: Course Outcomes and Pr	ogram O	outcomes (120)				
SN	Sub Criteria	Max. Marks	Evaluation Guidelines (Marks)	Marks Aw		Overall Marks	Observations of Evaluators (Provide Justifications/ Reasons)
3.1	Establish the correlation between the courses and the POs & PSOs	20		Marks	Total	Hurks	
3.1.1	Course Outcomes	5	Evidence of COs being defined for every course (5)				
3.1.2	CO-PO/PSOs matrices of courses selected in 3.1.1 (six matrices)	5	Explanation of table to be ascertained (5)				
3.1.3	Program level Course- PO/PSOs matrix of ALL courses including first year courses	10	Explanation of tables to be ascertained (10)				
3.2	Attainment of Course Outcomes	50					
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	Record the attainment of Course Outcomes of all courses with respect to set attainment levels	40	Verification attainment levels as per the bench mark set for all courses (40)				
3.3	Attainment of Program Outcomes and Program Specific Outcomes	50		I	I	I	1
3.3.1	Describe assessment tools and processes used for assessing the attainment of each of the POs & PSOs	10	 A. List of assessment tools & processes (5) B. The quality/relevance of assessment tools/processes used (5) 		-		

								UC	G Engineering	Tier-II
3.3.2	Provide results of evaluation of each PO & PSO	40	 A. Verification of documents, results and levels of attainment of each PO/PSO(24) B. Overall levels of attainment (16) 	rel						
Total o	f Criterion 3:	120	Overall	Marks for C	criterion 3:					
Criterio	on 4: Students' Performance (150)								
SN	Sub Criteria	Max.	Evaluation Guidelines (Marks)	Marks Awa	arded	Overall	Observations	of	Evaluators	(Provide
		Marks		Marks	Total	Marks	Justifications,	Reasor	ıs)	-
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 (16) D. >=60% students enrolled at the First Year Level on average basis during the previous three academic years starting from current academic year (14) E. >=50% 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 F. Otherwise '0' 				Sanctioned intake Students enrolled at first year level Enrolment ratio Average enrolment ratio(ER) Comments (if a ❖	CAY ny):	CAYm1	CAYm2
4.2	Success Rate in the stipulated period of the program	40								
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	25	 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 2nd year via lateral entry and separate division, if applicable) Average SI = Mean of success index (SI) for 				Success Index (SI) Average	YG	LYGm1	LYGm2

past three batches Success rate without backlogs in any year of study = 25 × Average SI	Success Index (SI) Comments (if any):	
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SN	Sub Criteria	Max. Marks	Evaluation Guidelines (Marks)	Marks A	warded	Overall Marks	Observations of Evaluators (Provide Justifications/ Reasons)				
		Planks		Marks	Total	Hunds	Sustineations, Reasons,				
4.2.2	Success rate in stipulated period (actual duration of the program) (Total of with backlog +without backlog)	15	 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 2nd year via lateral entry and separate division, if applicable) Average SI = mean of success index (SI) for past three batches Success rate = 15 × Average SI 				Success Index (SI) Average Success Index (SI) Comments *	LYG (if any):	LYGm1	LYGm2	
4.3	Academic Performance in Third Year	15	Academic Performance = 1.5 * Average API (Academic Performance Index) API = ((Mean of 3rd 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 Third 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 final year.				Average A Comments	•	t 3 years:		

4.4	Academic Performance in Second Year	15	Academic Performance Level = 1.5 * 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 Second Year/10)) x (number of successful students/students appeared in the examination)				Average API for past 3 years: Comments (if any):
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SN	Sub Criteria	Max.	Evaluation Guidelines (Marks)	Marks A	warded	Overall	Observations of Evaluators (Provi			
		Marks		Marks	Total	Marks	Justifications/	Reasons)	
4.5	Placement, Higher studies and Entrepreneurship	40	Assessment Points = $40 \times average$ of three years of [$(x + y + z)/N$] where,					CAYm1	CAYm2	CAYm3
			x=Number of students placed in companies or Government sector through on/off campus recruitment				Placement Index			
			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 an	יy):		
			N=Total number of final year students							
4.6	Professional Activities	20			•					
4.6.1	Professional societies/chapters and organizing engineering events	5	A. Availability & activities of professional societies/chapters (3)							

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			B. Number, quality of engineering (organized at Institute level- I State/National/International) (2)	events nstitute/							
4.6.2	Publication of technical magazines, newsletters, etc.	5	A. Quality & Relevance of the conte Print Material (3)	ents and							
			B. Participation of Students from the (2)	program		_					
4.6.3	Participation in inter-institute events by students of the program of study (at other	10	A. Events within the state (2)								
	institutions)		B. Events outside the state (3)								
			C. Prizes/awards received in such even	ts (5)							
Total o	of Criterion 4:	150	Ove	erall Marl	s for Cr	iterion 4:					
Criteri	on 5: Faculty Information and (Contribut	ions (200)								
SN	Sub Criteria	Max. Marks	Evaluation Guidelines (Marks)	Mar Awar Marks		Overall Marks	Observatio Reasons)	ons of Eva	aluators	(Provide	Justifications/
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				(2,3,4 ye	.of students ears) in all rograms in	САУ	CAYm1	CAYm2

SN	Sub Criteria	Max. Marks	Evaluation Guidelines (Marks)	Mar Awar Marks	 Overall Marks	Observations of Evaluators Reasons)	(Provide	Justifications/
			 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: Shall have the AICTE prescribed qualifications and experience. 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. 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 + PG1 +PGn F=Total no.of faculty members in the Department(excluding first year faculty) SFR Average SFR for past 3 years *Note: No.of students = Sanction lateral entry students (Refer crinic Comments (if any): 		

5.2	Faculty Cadre Proportion	25	Cadre Proportion Marks:				CAY	CAYm1	CAYm2
			$\begin{bmatrix} AF1 \\ RF1 \end{bmatrix} + \begin{bmatrix} AF2x0.6 \\ RF2 \end{bmatrix} + \begin{bmatrix} AF3x & 0.4 \\ RF3 \end{bmatrix} \times 1$ • 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):			
5.3	Faculty Qualification	25	FQ=2.5x[{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 comp 1:20 Faculty Student ratio (no.of faculty and no. of studen required to be calculated as per 5.1)	ts		No.of Ph.D: No.of M.Tech: Faculty Qualification (FQ) Average FQ for past 3 years Comments (if any):		CAYm1	CAYm2
SN	Sub Criteria	Max. Marks	Evaluation Guidelines (Marks)	Marks Awarded Marks Tota	Overall Marks	Observations of E Reasons)	valuators	(Provide	Justifications

Signature (Program Evaluator 1)

5.4	Faculty Retention	25	 A. ≥ 90% of required Faculties retained during the period of assessment keeping CAYm2 as base year (25) B. ≥ 75% of required Faculties retained during the period of assessment keeping CAYm2 as base year (20) C. ≥ 60% of required Faculties retained during the period of assessment keeping CAYm2 as base year (15) D. ≥ 50% of required Faculties retained during the period of assessment keeping CAYm2 as base year (15) E. 50% of required Faculties base year (10) E. Otherwise (0) 		No.of Faculty Retained Total No.of Required Faculty CAYm2 Percentage of faculty retained Average parentage of facu retained for past 2 years Comments (if any): *		CAY	m1
5.5	Innovations by the Faculty in Teaching and Learning	20	 A. The work must be made available on Institute Website (4) B. The work must be available for peer review and critique (4) C. The work must be reproducible and developed further by other scholars (2) D. Statement of clear goals, use of appropriate methods, significance of results, effective presentation and reflective critique (10) 					
5.6	Faculty as participants in Faculty development /training activities / STTPs	15	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

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SN	Sub Criteria	Max. Marks	Evaluation Guidelines (Marks)	Marks Awarded		Overall Marks	Observations of Evaluate Reasons)	ors (Provi	de Justi	Justifications/	
				Marks	Total						
5.7	Research and Development	30									
5.7.1	Academic Research	10	 A. Number of quality publications in refereed/SCI Journals, citations, Books/Book Chapters etc. (6) B. Ph.D guided /Ph.D awarded during the assessment period while working in the Institute (4) 		-						
5.7.2	Sponsored Research	5	Funded research from outside; Cumulative CAYm1, CAYm2, CAYm3: Amount >20 Lakhs- 5 Marks Amount >=16 Lakhs and <=20 Lakhs - 4 Marks Amount >= 12 Lakhs and < 16 Lakhs - 3 Marks Amount >= 8 Lakhs and < 12 Lakhs - 2 Marks Amount >= 4 Lakhs and < 8 Lakhs - 1 Mark Amount < 4 Lakhs- 0 Mark				No.of projects Amount (Rs.In Lakhs) Total amount for past years(Rs.In Lakhs) Comments (if any):	CAYm1	CAYm2	CAYm3	
5.7.3	Development Activities	10	 A. Product development B. Research laboratories C. Instructional materials D. Working models/ charts/monograms etc. 								
5.7.4	Consultancy (From Industry)	5	Consultancy; Cumulative CAYm1, CAYm2, CAYm3: Amount>10 Lakhs- 5 Marks Amount>=8 Lakhs and <=10 Lakhs -4 Marks Amount>=6 Lakhs and < 8 Lakhs -3 Marks Amount>=4 Lakhs and <6 Lakhs -2 Marks Amount>=2 Lakhs and <4 Lakhs -1 Mark Amount<2 Lakhs - 0 Mark				No.of projects Amount (Rs.In Lakhs) Total amount for past 3 yea (Rs.In Lakhs) Comments (if any): *	CAYm1	CAYm2	CAYm3	

SN	Sub Criteria	Max. Marks	Evaluation Guidelines (Marks)	Marks Awarded		Overall Marks	Observations Reasons)	of	Evaluators	(Provide	Justifications/
				Marks	Total						
5.8	Faculty Performance Appraisal and Development System (FPADS)	30	 A. A well-defined performance appraisal and development system instituted for all the assessment years (10) B. Its implementation and effectiveness (20) 		-						
5.9	Visiting/Adjunct/Emeritus Faculty etc.	10	Provision of Visiting /Adjunct/Emeritus faculty etc.(1) Minimum 50 hours per year interaction per year to obtain three marks :3x3=9		-		No.of hours Comments (if ar	CAY / hy):	m1 CAY	'm1/m2	CAYm2/m3
Total of	FCriterion 5:	200	Overall Marks	for Crite	rion 5:						

	Max. Marks	Evaluation Guidelines (Marks)	Mair	s Awarded	Overall Marks	Observations of Evaluators (Provide Justifications/ Reasons)
			Marks	Total		
Adequate and well- equipped laboratories, and technical manpower	30	A. Adequate well-equipped laboratories to run all the program-specific curriculum (20)				
		B. Availability of adequate technical supporting staff (5)				
		C. Availability of qualified technical supporting staff (5)				
Additional Facilities created for improving the quality of learning	25	A. Availability and relevance of additional facilities (10)				
experience in Laboratories		B. Facilities utilization and effectiveness (10)				
		C. Relevance of PO and PSO (5)				
Laboratories: Maintenance and overall ambience	10	Maintenance and overall ambience (10)				
Project laboratory	5	Facilities & Utilization (5)				
Safety measures in laboratories	10	Safety measures in laboratories (10)				
	equipped laboratories, and technical manpower Additional Facilities created for improving the quality of learning experience in Laboratories Laboratories: Maintenance and overall ambience Project laboratory Safety measures in	equipped laboratories, and technical manpowerAdditional created for improving the quality experience in Laboratories25Laboratories: Maintenance and overall ambience10Project laboratory5Safety measures10	equipped laboratories, and technical manpowerlaboratories to run all the program-specific curriculum (20)B. Availability of adequate technical supporting staff (5)B. Availability of adequate technical supporting staff (5)Additional created for improving the quality of learning experience in Laboratories25A. Availability and relevance of additional facilities (10)B. Facilities created for improving the quality of learning experience in Laboratories25A. Availability and relevance of additional facilities (10)B. Facilities created for improving the quality of learning experience in Laboratories10B. Facilities 	equipped laboratories, and technical manpower laboratories to run all the program-specific curriculum (20) B. Availability of adequate technical supporting staff (5) C. Availability of qualified technical supporting staff (5) Additional Facilities created for improving the quality of learning experience in Laboratories 25 A. Availability and relevance of additional facilities (10) B. Facilities utilization and effectiveness (10) C. Relevance of PO and PSO (5) C. Relevance of PO and PSO (5) Laboratories: Maintenance and overall ambience (10) Maintenance and overall ambience (10) Project laboratory 5 Facilities & Utilization (5) Safety measures in 10 Safety measures in laboratories (10)	equipped laboratories, and technical manpower laboratories to run all the program-specific curiculum (20) B. Availability of adequate technical supporting staff (5) C. Availability of qualified technical supporting staff (5) Additional Facilities created for improving the quality of learning experience in Laboratories A. Availability and relevance of additional facilities (10) B. Facilities utilization and effectiveness (10) C. Relevance of PO and PSO (5) Laboratories: Maintenance and overall ambience (10) Maintenance and overall ambience (10) Project laboratory 5 Facilities & Utilization (5) Safety measures in 10 Safety measures in laboratories (10)	equipped laboratories, and technical manpower laboratories to run all the program-specific curriculum (20) B. Availability of adequate technical supporting staff (5) C. Availability of qualified technical supporting staff (5) Additional Facilities created for improving the quality of learning experience in Laboratories 25 A. Availability and relevance of additional facilities (10) B. Facilities utilization and effectiveness (10) C. Relevance of PO and PSO (5) E. Relevance of PO and PSO (5) Laboratories: Maintenance and overall ambience 10 Maintenance and overall ambience Maintenance (10) Project laboratory 5 Facilities & Utilization (5) Eaclities & Utilization (5) Eaclities & Utilization (5)

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Total c	of Criterion 6:	80	Overal	l Marks fo	or Criterion 6:		
Criteri	on 7: Continuous Improvement	. (50)					
SN	Sub Criteria	Max. Marks	Evaluation Guidelines (Marks)	Marks Awarded		Overall Marks	Observations of Evaluators (Provide Justifications/ Reasons)
			(******,	Marks	Total		
7.1	Actions taken based on the results of evaluation of each of the POs and PSOs		A. Documentation of POs and PSOs attainment levels (5)				
			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		Assessment shall be based on conduct and actions taken in relation to continuous improvement (10)				
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	10	Assessment is based on improvement in terms of ranks/score in qualifying state level/national level entrances tests, percentage Physics, Chemistry and Mathematics				

			UG Engineering Tier-II
	marks in 12th Standard and percentage marks of the lateral entry students		
50	Overall Marks fo	or Criterion 7:	
	50	percentage marks of the lateral entry students	percentage marks of the lateral entry students