

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

Name of the Institution :

Name of the Program :

Criterion 1: Outcome-Based Curriculum (120)

S.N.	Sub-Criteria	Max. Marks	Evaluation Guidelines (Marks)	Marks Awarded		Observations of Evaluators (Provide Justifications/ Reasons)
				Marks	Total	
1.1	Vision, Mission, Program Educational Objectives (PEOs)	40				
1.1.1	State the Vision and Mission of the Institute and the Department	05	A. Availability of the vision and mission statements of the Department (01)			
			B. Appropriateness and relevance of the Statements (02)			
			C. Consistency of the Department vision and mission statements with the Institute vision and mission (02)			
1.1.2	State PEOs of the Programme	05	Listing of the Program Educational Objectives (3 to 5) of the program under consideration and their appropriateness			
1.1.3	Process of Defining Vision, Mission and PEOs	15	A. Description of the process involved in defining the Vision, Mission of the Department (08)			
			B. Description of the process involved in defining the PEOs of the program (07)			
1.1.4	Dissemination of Vision, Mission and PEOs	05	A. Adequacy in respect of publication & dissemination (03)			
			B. Process of dissemination among stakeholders (02)			
1.1.5	Mapping of PEOs with Mission	10	A. Preparation of a matrix of PEOs and mission statement (05)			
			B. Consistency/justification of correlation parameters of the above matrix (05)			

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S.N.	Sub-Criteria	Max. Marks	Evaluation Guidelines (Marks)	Marks Awarded		Observations of Evaluators (Provide Justifications/ Reasons)
				Marks	Total	
1.2	Curriculum Structure and Features	30				
1.2.1	Program Curriculum Structure	05	Courses required for the degree program and distribution of learning hours assigned in terms of attaining POs and PSOs			
1.2.2	Components of Program Curriculum	05	Verify curricular components for the attainment of POs and PSOs			
1.2.3	State the Process Used to Identify Extent of Compliance of the University Curriculum for Attaining the Program Outcomes and Program Specific Outcomes as mentioned in Annexure II. Also Mention the Identified Curricular Gaps, if any	10	A. Process used to identify extent of compliance of university curriculum for attaining POs & PSOs (07)			
			B. List the curricular gaps for the attainment of defined POs & PSOs (03)			
1.2.4	State the Delivery Details of the Content beyond the Syllabus for the Attainment of Program Outcomes and Program Specific Outcomes	10	A. Steps taken to get identified gaps included in the curriculum.(e.g. letter to University/BoS) (02)			
			B. Delivery details of content beyond syllabus (05)			
			C. Mapping of content beyond syllabus with the POs & PSOs (03)			

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S.N.	Sub-Criteria	Max. Marks	Evaluation Guidelines (Marks)	Marks Awarded		Observations of Evaluators (Provide Justifications/ Reasons)
				Marks	Total	
1.3	PO, PSO and their Mapping with Courses	15				
1.3.1	POs and PSOs	05	Listing of the Program Specific Outcomes (up to 3) of the program under consideration and their appropriateness			
1.3.2	Mapping between the Courses and POs/ PSOs	10	Justification of mapping between courses and POs and PSOs			
1.4	Course Outcomes and Course Articulation Matrix	25				
1.4.1	Course Outcome (Semester wise)	15	Availability of appropriate COs for every course			
1.4.2	Course Articulation Matrix	10	Availability of Course Articulation Matrix and its appropriateness in terms of level of co-relation			
1.5	Program Articulation Matrix	10	Availability of Mapping of Courses and POs/ PSOs			
Total of Criterion 1:		120	Total Marks Awarded for Criterion 1:			Grade (Y,C,W,D) Awarded for Criterion 1:

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Criterion 2: Outcome-Based Teaching Learning (120)

S.N.	Sub-Criteria	Max. Marks	Evaluation Guidelines (Marks)	Marks Awarded		Observations of Evaluators (Provide Justifications/ Reasons)
				Marks	Total	
2.1	Describe Processes Followed to Ensure Quality of Teaching & Learning	20	A. Adherence to Academic Calendar (02)			
			B. Pedagogical initiatives (05)			
			C. Support students based on their ability (04)			
			D. Quality of classroom teaching (04)			
			E. Conduct of experiments (05)			
2.2.	Quality of Student Capstone Project	25	A. Identification of capstone/major project and allocation of guides (05)			
			B. Types and relevance of the capstone/ major project and their contribution towards the attainment of POs and PSOs (06)			
			C. Continuous monitoring process (04)			
			D. Quality of completed projects/ working models/ prototypes in relation to environment, sustainability, safety, ethics and cost (10)			
2.3	Internship/ Industrial Training	10	A. Process of Internship/ Industrial training for students (03)			
			B. Mapping of Industrial training/ internships with POs and PSOs (04)			
			C. Student feedback on training /internships and its analysis (03)			

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S.N.	Sub-Criteria	Max. Marks	Evaluation Guidelines (Marks)	Marks Awarded		Observations of Evaluators (Provide Justifications/ Reasons)		
				Marks	Total			
2.4	Seminar and Mini/ Micro Projects	10	A. Mapping of Seminars presented by the students with POs and PSOs (05)					
			B. Mapping of the mini/micro project and their contribution with POs and PSOs (05)					
2.5.	Case Studies and Real-Life Examples	10	Use of case studies and real-life examples in teaching and their mapping with POs and PSOs					
2.6.	SWAYAM/ NPTEL/ MOOC/ Self Learning	10	A. Number of students obtained MOOCs certification through platforms like SWAYAM/NPTEL, etc and their mapping with POs and PSOs (07)					
			B. Scope for self-learning & facilities and its use (03)					
2.7	Solving Complex Engineering Problems Incorporating Sustainability Goals	20	List of complex engineering problems from different courses/activities/min projects, etc. along with the targeted SDGs.					
2.8	Steps Taken for Enhancing Industry Institute Partnerships	15	A. Industry involvement in the partial delivery of any regular courses for students (05)					
			B. Industry offered courses/training (04)					
			C. Industry-supported laboratories (03)					
			D. Impact analysis and actions taken thereof (03)					
Total of Criterion 2:		120	Total Marks Awarded for Criterion 2:			Grade (Y,C,W,D) Awarded for Criterion 2:		

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Criterion 3: Outcome-Based Assessment (120)						
S.N.	Sub-Criteria	Max. Marks	Evaluation Guidelines (Marks)	Marks Awarded		Observations of Evaluators (Provide Justifications/ Reasons)
				Marks	Total	
3.1	Evaluation of Continuous Assessment: Assignments, Unit Tests, Mid-Term, etc	10	A. Process for setting and evaluation of internal semester question paper (02)			
			B. Quality of questions, appropriateness of mapping with the COs (03).			
			C. Assessment of COs coverage in unit tests/class tests/mid-term tests/assignments (03)			
			D. Sharing of post evaluation feedback with students for performance improvement (02)			
3.2	Evaluation of Semester End Exam (SEE Question Paper)	10	Quality of questions, appropriateness of mapping with the COs			
3.3	Evaluation of Laboratory Work and Workshop (Continuous and SEE)	10	A. Evaluation of experiments conducted in workshops/laboratories (05)			
			B. Use of rubrics for assessing student performance with relevance to COs/POs (05)			
3.4	Evaluation of Industrial Training/ Internship (Continuous and SEE)	10	A. Relevance of internships/ industrial training (04)			
			B. Rubrics used for assessing student industrial training/ internships and appropriateness of mapping with POs (06)			
3.5	Evaluation of Projects	20	A. Rubrics for assessing complexity, cost, relevance to the environment, and sustainability, etc (10)			
			B. Rubrics for assessing team work, communication, and use of project management concepts (10)			

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S.N.	Sub-Criteria	Max. Marks	Evaluation Guidelines (Marks)	Marks Awarded		Observations of Evaluators (Provide Justifications/ Reasons)	
				Marks	Total		
3.6	Evidence of Addressing Sustainable Development Goals (SDG)	10	Evidence of Addressing Sustainable Development Goals relevant to the program				
3.7	Attainment of Course Outcomes	25					
3.7.1	Describe the Assessment Tools and Processes Used to Gather the Data for the Evaluation of Course Outcome	05	A. List of assessment tools and processes (02)				
			B. The quality /relevance of assessment tools/ processes used (03)				
3.7.2	Record the Attainment of Course Outcomes of all Courses with Respect to Set Attainment Levels	20	Verification of attainment levels as per the bench mark set for COs of all courses				
3.8	Attainment of Program Outcomes and Program Specific Outcomes	25	A. Verification of documents, results and the level of attainment of each PO/PSO (10)				
			B. Assessment of overall levels of attainment (15)				
Total of Criterion 3:		120	Total Marks Awarded for Criterion 3:			Grade (Y,C,W,D) Awarded for Criterion 3:	

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Criterion 4: Students' Performance (120)									
SN	Sub Criteria	Max. Marks	Evaluation Guidelines (Marks)	Marks Awarded		Observations of Evaluators (Provide Justifications/ Reasons)			
				Marks	Total				
4.1	Enrolment Ratio in the First Year	20	A. $\geq 90\%$ students enrolled in the First Year on average over 3 academic years(CAY, CAYm1 and CAYm2) (20)				CAY	CAYm1	CAYm2
			B. $\geq 80\%$ students enrolled in the First Year on average over 3 academic years(CAY, CAYm1 and CAYm2) (17)			Sanctioned intake (N)			
			C. $\geq 70\%$ students enrolled in the First Year on average over 3 academic years(CAY, CAYm1 and CAYm2) (14)			Students enrolled in 1 st year (N1+N4)			
			D. $\geq 60\%$ students enrolled in the First Year on average over 3 academic years(CAY, CAYm1 and CAYm2) (11)			Enrolment ratio (ER)= (N1+N4)/N			
			E. $\geq 50\%$ students enrolled in the First Year on average over 3 academic years(CAY, CAYm1 and CAYm2) (08)			Average ER			
			F. $\geq 40\%$ students enrolled in the First Year on average of current academic year (CAY), CAYm1 and CAYm2 (05)			Comments (if any):			
			G. Otherwise '0'.			❖			
4.2	Success Rate of the Students in the Stipulated Period of the Program	15	Success Rate (SR) = (B/A)*100; SR Points = 1.5 * (Average SR/10).				LYG	LYGm1	LYGm2
			A=No. of students admitted in the 1 st year of that batch and those actually admitted in the 2 nd year via lateral entry, plus the number of students admitted through multiple entry (if any) and separate division if applicable, minus the number of students who exited through multiple entry (if any).			Success Rate (SR)=(B/A)* 100			
			B=No. of students who graduated from the program in the stipulated course duration			Average SR			
			Note *: If the value of A is less than the sum of the sanctioned intake (N) and the lateral entry including leftover seats (N2), then the value of B should be the sum of the sanctioned intake (N) and the lateral entry including leftover seats (N2). Average SR=Mean of SR for the past three batches.			Comments (if any):			

S.N.	Sub-Criteria	Max. Marks	Evaluation Guidelines (Marks)	Marks Awarded		Observations of Evaluators (Provide Justifications/ Reasons)			
				Marks	Total		CAYm1	CAYm2	CAYm3
4.3	Academic Performance of the First Year Students of the Program	10	<p>Academic Performance=Average Academic Performance Index (API), where</p> <p>API=((Mean of 1st 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 1st Year/10))*(Number of successful students/number of students appeared in the examination).</p> <p>Successful students are those who have proceeded to the 2nd year.</p>				CAYm1	CAYm2	CAYm3
						Academic Performance Index (API)			
						Average API			
						Comments (if any): ❖			
4.4	Academic Performance of the Second Year Students of the Program	10	<p>Academic Performance=Average Academic Performance Index (API), where</p> <p>API=((Mean of 2nd 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 2nd Year/10))*(Number of successful students/number of students appeared in the examination).</p> <p>Successful students are those who have proceeded to the 3rd year</p>				CAYm1	CAYm2	CAYm3
						Academic Performance Index (API)			
						Average API			
						Comments (if any): ❖			
4.5	Academic Performance of the Third Year Students of the Program	10	<p>Academic Performance=Average Academic Performance Index (API), where</p> <p>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 3rd year/10))*(Number of successful students/number of students appeared in the examination)</p> <p>Successful students are those who have proceeded to the 4th year.</p>				CAYm1	CAYm2	CAYm3
						Academic Performance Index (API)			
						Average API			
						Comments (if any): ❖			

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S.N.	Sub-Criteria	Max. Marks	Evaluation Guidelines (Marks)	Marks Awarded		Observations of Evaluators (Provide Justifications/ Reasons)			
				Marks	Total		CAYm1	CAYm2	CAYm3
4.6	Placement, Higher Studies and Entrepreneurship	30	Assessment Points=0.3*Average of Placement Index (P). Placement Index(P)=(((X+Y+Z)/FS)*100), where ❖ X=No. of students placed. ❖ Y=No. of students admitted to higher studies ❖ Z=No. of students taking up entrepreneurship ❖ FS=Total no. of final year students Note: If the value of FS is less than the sum of the sanctioned intake (N) and the lateral entry including leftover seats (N2), then the value of FS should be the sum of the sanctioned intake (N) and the lateral entry including leftover seats (N2)				CAYm1	CAYm2	CAYm3
						Placement Index (P)			
						Average P			
Comments (if any): ❖									
4.7	Professional Activities	25							
4.7.1	Professional Societies/ Bodies, Chapters, Clubs, and Professional Engineering Events Organized	05	A. Availability and number of activities organized through professional societies/ chapters/ clubs (02).						
			B. Number and quality of engineering events organized at the Institute, categorized by level (National/ International) (03).						
4.7.2	Student's Participations in Professional Events (at other institutions)	10	A. No. of students participated in the state level events (03)				CAYm1	CAYm2	CAYm3
			No. of students participated in state level						
			B. No. of students participated in the national level/ international events (03)						
			No. of students participated in national/ international level						
			C. Number of students received prizes/ awards in such events (04)						
Number of students received prizes/ awards									
Comments (if any) ❖									

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S.N.	Sub- Criteria	Max. Marks	Evaluation Guidelines (Marks)	Marks Awarded		Observations of Evaluators (Provide Justifications/ Reasons)			
				Marks	Total				
4.7.3	Publication of Journals, Magazines, Newsletters, etc in the Department	05	A. Quality and relevance of the contents and print material/e-format (03)						
			B. Student involvement in publication of journals, magazines, newsletters (02)						
4.7.4	Student Publications	05	A. No. of journal papers published by students during the assessment period (02)				CAYm1	CAYm2	CAYm3
						No. of journal papers			
			B. No. of conference papers published by students during the assessment period (02)			No. of conference papers			
			C. No. of student publications that received prizes/ awards during the assessment period (01)			No. of awards/prizes			
						Comments (if any) ❖			
Total of Criterion 4:		120	Total Marks Awarded for Criterion 4:			Grade (Y,C,W,D) Awarded for Criterion 4:			

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Criterion 5: Faculty Information (100)																								
S.N.	Sub-Criteria	Max. Marks	Evaluation Guidelines (Marks)	Marks Awarded		Observations of Evaluators (Provide Justifications/ Reasons)																		
				Marks	Total		CAY	CAYm1	CAYm2															
5.1	Student-Faculty Ratio (SFR) (Excluding first year faculty who have a 100% teaching load in first-year courses)	30	<p>Marks to be given proportionally from a maximum of 30 to a minimum of 15 for average SFR between 15:1 to 25:1, and zero for average SFR higher than 25:1. Marks distribution is given as below</p> <table border="0"> <tr><td>SFR ≤ 15</td><td>- 30 Marks</td></tr> <tr><td>≤ 17</td><td>- 27 Marks</td></tr> <tr><td>≤ 19</td><td>- 24 Marks</td></tr> <tr><td>≤ 21</td><td>- 21 Marks</td></tr> <tr><td>≤ 23</td><td>- 18 Marks</td></tr> <tr><td>≤ 25</td><td>- 15 Marks</td></tr> <tr><td>> 25</td><td>- 00 Marks</td></tr> </table> <p>Note: All the faculty whether regular or contractual (except part-time or hourly based), will be considered. All regular faculty members shall meet the AICTE qualifications and experience requirements. 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:</p> <ol style="list-style-type: none"> 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. <p>Programs such as MCA, BCA, Diploma (Engineering), and other non-engineering programs running in the Department or allied Departments need to have sufficient faculty members to support those programs. These faculty members and students should not be included here.</p> <p>The Professor of Practice (PoP), Associate Professor of Practice (PoP), and Assistant Professor of Practice (PoP) (Full-time basis) will be considered as per the qualifications and experience prescribed by the AICTE for the NBA evaluation process for accreditation of Engineering programs. e.g. for calculation of SFR, Faculty Qualification, Faculty Cadre Proportion, Faculty Retention Ratio and Faculty members participation in STTPs/FDPs. The maximum number of faculty members engaged as Professor of Practice (PoP) with the required faculty strength (Cadre Ratio) as per AICTE norm will be 20% wherein 5% (ratio 3:1) is exclusively reserved for Women Professor of Practice (PoP), Associate /Assistant Professor of Practice (PoP) (Full-time basis)</p>	SFR ≤ 15	- 30 Marks	≤ 17	- 27 Marks	≤ 19	- 24 Marks	≤ 21	- 21 Marks	≤ 23	- 18 Marks	≤ 25	- 15 Marks	> 25	- 00 Marks							
SFR ≤ 15	- 30 Marks																							
≤ 17	- 27 Marks																							
≤ 19	- 24 Marks																							
≤ 21	- 21 Marks																							
≤ 23	- 18 Marks																							
≤ 25	- 15 Marks																							
> 25	- 00 Marks																							
						DS=Total no. of students in all UG and PG programs in the Department																		
						AS=Total no. of students of all UG and PG programs in allied departments																		
						S=Total no. of students in the Department (DS) and allied departments (AS)																		
						DF=Total no. of faculty members in the Department																		
						AF=Total no. of faculty members in the allied Departments																		
						F=Total no. of faculty members in the Department (DF) and allied Departments (AF)																		
						PoP=Total no. of PoP in the Department (DF) and allied Departments (AF)																		
						FF=The faculty members in F who have a 100% teaching load in the first-year courses																		
						TF=Total faculty=(F+PoP-FF)																		
						Student Faculty Ratio (SFR)=S/TF																		
						Average SFR																		
						Note: No. of students = Sanctioned Intake (SA)+ Actual admitted students via lateral entry including leftover seats if any (limited to 10 % of SA) (Refer to criteria 5.1 in the SAR). Comments (if any): ❖																		

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S.N.	Sub-Criteria	Max. Marks	Evaluation Guidelines (Marks)	Marks Awarded		Observations of Evaluators (Provide Justifications/ Reasons)			
				Marks	Total		CAY	CAYm1	CAYm2
5.2	Faculty Qualification (Excluding first year faculty who have a 100% teaching load in first-year courses)	25	FQI=2.5 * [(10X + 4Y)/RF] where, X=No. of faculty members with Ph.D., Y=No. of faculty members with M.Tech/ ME. RF=No. of required faculty in the Department including allied Departments to adhere to the 20:1 Student-Faculty ratio, with calculations based on both student numbers and faculty requirements as per section 5.1 of SAR; (RF=S/20) To determine the RF value, all students (S as defined in section 5.1 of SAR) in the department, as well as those in allied departments, need to be considered.				CAY	CAYm1	CAYm2
						No. of faculty members with Ph.D. :			
						No. of faculty members with M.Tech/ ME :			
						RF			
						Faculty Qualification Index (FQI)			
						Average FQI for past 3 years			
Comments (if any): ❖									
5.3	Faculty Cadre Proportion (Excluding first year faculty who have a 100% teaching load in first-year courses)	25	Cadre Proportion Marks: $\left[\frac{AF1}{RF1} + \frac{AF2*0.6}{RF2} + \frac{AF3*0.4}{RF3} \right] * 12.5$ <ul style="list-style-type: none"> ❖ If AF1=AF2=0, then zero mark ❖ Maximum marks to be limited to 25 if it exceeds the allocated marks. All Professors (RF1, AF1), all Associate Professors (RF2, AF2), and all Assistant Professors (RF3, AF3) in the department, as well as those in allied departments, should be considered for the calculation of faculty cadre proportion marks. To determine the RF1, RF2, and RF3 values, all students (S as defined in section 5.1 of SAR) in the department, as well as those in allied departments, need to be considered.				CAY	CAYm1	CAYm2
						No. of Professors			
						No. of Associate Professors			
						No. of Assistant Professors			
						Comments (if any): ❖			

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S.N.	Sub-Criteria	Max. Marks	Evaluation Guidelines (Marks)	Marks Awarded		Observations of Evaluators (Provide Justifications/ Reasons)						
				Marks	Total							
5.4.	Visiting/Adjunct Faculty/ Professor of Practice (Interaction hours is less than 50 hours in a year is 0 mark)	10	A. Provision of visiting or adjunct faculty/emeritus professor/professor of practice, etc (01)				CAYm1	CAYm2	CAYm3			
			B. Minimum 50 cumulative hours per year interaction (09) (Per year to obtain three marks: 3*3=09) (There is no data repetition from Section 5.1)			Total no. of hours Comments (if any): ❖						
5.5	Faculty Retention (Only Department faculty)	10	$FR = (((A*0) + (B*1) + (C*2) + (D*3) + (E*4))/RF) * 2.50$ (points limited to 10) RF=No. of required faculty in the Department to adhere to the 20:1 Student-Faculty ratio, with calculations based on both student numbers and faculty requirements as per section 5.1 of SAR; (RF=DS/20) AF=The no. of available faculty members in the Department. A= The no. of faculty members at the current institute with less than 1 year of experience (A in AF) B= The no. of faculty members at the current institute with more than 1 year and less than 2 years of experience (B in AF) C= The no. of faculty members at the current institute with more than 2 years and less than 3 years of experience (C in AF) D= The no. of faculty members at the current institute with more than 3 years and less than 4 years of experience (D in AF). E= The no. of faculty members at the current institute with more than 4 years of experience (E in AF)				CAY	CAYm1	CAYm2			
						FR points						
						Average FR points						
Comments (if any): ❖												
Total of Criterion 5:		100	Total Marks Awarded for Criterion 5:			Grade (Y,C,W,D) Awarded for Criterion 5:						

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Criterion 6: Faculty Contributions (120)																		
S.N.	Sub-Criteria	Max. Marks	Evaluation Guidelines (Marks)	Marks Awarded		Observations of Evaluators (Provide Justifications/ Reasons)												
				Marks	Total													
6.1	Professional Development Activities	60																
6.1.1	Memberships in Profession Societies at National/ International Levels	05	Memberships in Professional Societies at National/International Levels. Faculty members who have active recognized professional memberships and their positions and contributions to professional societies during the assessment period.															
6.1.2	Faculty as Resource Persons or Participants in STTPs/FDPs	15																
6.1.2.1	Faculty as Resource Persons in STTPs / FDPs	05	<ul style="list-style-type: none"> ❖ An average of more than 3 faculty members from the Department served as resource persons in STTPs/FDPs during the assessment period (05) ❖ An average of more than 2 and less than 3 faculty members from the Department served as resource persons in STTPs/FDPs during assessment period (02) 															
6.1.2.2	Faculty Members' Participation in STTPs/FDPs	10	<ul style="list-style-type: none"> ❖ A Faculty scores maximum five points for participation ❖ Participation in 2 to 5 days Faculty development program: 3 Points ❖ Participation in >5 days Faculty development program: 5 points ❖ RF= Number of faculty required to comply with the 20:1 student-faculty ratio in the Department alone, as per section 5.1(RF= DS/20). ❖ For each year, Assessment Points (AP)=2*((Sum of faculty participation score)/(0.5*RF)). ❖ Average assessment over last three years starting from CAYm1 (Marks limited to 10) 			<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 60%;"></th> <th style="width: 15%;">CAYm1</th> <th style="width: 15%;">CAYm2</th> <th style="width: 10%;">CAYm3</th> </tr> </thead> <tbody> <tr> <td>Assessment points (AP) are:</td> <td></td> <td></td> <td></td> </tr> <tr> <td>Average AP)</td> <td colspan="3"></td> </tr> </tbody> </table> <p>Comments (if any)</p> <ul style="list-style-type: none"> ❖ 		CAYm1	CAYm2	CAYm3	Assessment points (AP) are:				Average AP)			
	CAYm1	CAYm2	CAYm3															
Assessment points (AP) are:																		
Average AP)																		

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S.N.	Sub-Criteria	Max. Marks	Evaluation Guidelines (Marks)	Marks Awarded		Observations of Evaluators (Provide Justifications/ Reasons)				
				Marks	Total					
6.1.3	Faculty Certification of MOOCs through SWAYAM, etc	10	<p>Percentage of faculty members in the Department obtained MOOCs certification through platforms like SWAYAM/NPTEL and marks distribution as follows:</p> <ul style="list-style-type: none"> ❖ $\geq 30\%$ of available faculty members in the Department obtained MOOCs certification through platforms like SWAYAM/NPTEL during the assessment period (07-10) ❖ $\geq 20\%$ and $<30\%$ of available faculty members in the Department obtained MOOCs certification through platforms like SWAYAM/NPTEL during the assessment period (04-06) ❖ $< 20\%$ of available faculty members in the Department obtained MOOCs certification through platforms like SWAYAM/NPTEL during the assessment period (00-03) 							
6.1.4	FDP/STTP Organized by Department Faculty	10	<ul style="list-style-type: none"> ❖ The minimum duration of FDP/STTP is 5 days. ❖ 2 points per FDP/STTP, with a maximum of 4 marks per assessment year and a total maximum of 10 marks 				CAYm1	CAYm2	CAYm3	
							No. of FDP/STTP conducted			
							Assessment points (AP) are			
							Comments			
							❖			

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S.N.	Sub Criteria	Max. Marks	Evaluation Guidelines (Marks)	Marks Awarded		Observations of Evaluators (Provide Justifications/ Reasons)
				Marks	Total	
6.1.5	Faculty Support in Student Innovative Projects	10	<p>Percentage of faculty members in the Department supporting as a mentor, facilitator, etc. in student innovation projects in various events like hackathons, codeathons, ideathons, open research, etc & marks distribution as follows:</p> <ul style="list-style-type: none"> ❖ $\geq 30\%$ of available faculty members in the Department support as a mentor, facilitator, etc. in student innovation projects in various events during the assessment period (07-10) ❖ $\geq 20\%$ and $< 30\%$ of available faculty members in the Department support as a mentor, facilitator, etc. in student innovation projects in various events in the past 3 years (04-06) ❖ $< 20\%$ of available faculty members in the Department support as a mentor, facilitator, etc. in student innovation projects in various events in the past 3 years (00-03) 			
6.1.6	Faculty Internship/ Training/ Collaboration with Industry	10	<p>Percentage of faculty members in the Department, who have undergone faculty internships/trainings/collaboration with industry & marks distribution as follows:</p> <ul style="list-style-type: none"> ❖ $\geq 30\%$ of available faculty members in the Department have undergone faculty internships/ trainings/ collaboration with industry during the assessment period (07-10) ❖ $\geq 20\%$ and 30% of available faculty members in the Department have undergone faculty internships/ trainings/ collaboration with industry during the assessment period (04-06) ❖ $< 20\%$ of available faculty members in the Department have undergone faculty internships/ trainings/ collaboration with industry during the assessment period (00-03) 			

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S.N.	Sub Criteria	Max. Marks	Evaluation Guidelines (Marks)		Observations of Evaluators (Provide Justifications/ Reasons)																
			Marks	Total																	
6.2	Research and Development Activities	60																			
6.2.1	Academic Research	10	A. No. of Publications (06)		<table border="1"> <thead> <tr> <th></th> <th>CAYm1</th> <th>CAYm2</th> <th>CAYm3</th> </tr> </thead> <tbody> <tr> <td>No. of peer reviewed journal papers</td> <td></td> <td></td> <td></td> </tr> <tr> <td>No. of peer reviewed conference papers</td> <td></td> <td></td> <td></td> </tr> <tr> <td>No. of books/ book chapters</td> <td></td> <td></td> <td></td> </tr> </tbody> </table> <p>Comments (if any): ❖</p>		CAYm1	CAYm2	CAYm3	No. of peer reviewed journal papers				No. of peer reviewed conference papers				No. of books/ book chapters			
	CAYm1	CAYm2	CAYm3																		
No. of peer reviewed journal papers																					
No. of peer reviewed conference papers																					
No. of books/ book chapters																					
6.2.2	Development Activities	10	A. Patents granted during the assessment period (04)		<table border="1"> <thead> <tr> <th></th> <th>CAYm1</th> <th>CAYm2</th> <th>CAYm3</th> </tr> </thead> <tbody> <tr> <td>No. of Patents granted</td> <td></td> <td></td> <td></td> </tr> <tr> <td>No. of Patents published</td> <td></td> <td></td> <td></td> </tr> <tr> <td>No. of working models/prototypes</td> <td></td> <td></td> <td></td> </tr> </tbody> </table> <p>Comments (if any): ❖</p>		CAYm1	CAYm2	CAYm3	No. of Patents granted				No. of Patents published				No. of working models/prototypes			
	CAYm1	CAYm2	CAYm3																		
No. of Patents granted																					
No. of Patents published																					
No. of working models/prototypes																					
6.2.3	Sponsored Research Project	15	Funded research projects from external sources; Cumulative during CAYm1, CAYm2 and CAYm3: ❖ Amount ≥ 15 Lacs – 15 Marks ❖ Amount ≥ 12 Lacs and < 15 lacs – 12 Marks ❖ Amount ≥ 9 Lacs and < 12 lacs – 9 Marks ❖ Amount ≥ 6 Lacs and < 9 lacs – 6 Marks ❖ Amount ≥ 3 Lacs and < 6 lacs – 3 Marks ❖ Amount ≥ 1 Lac and < 3 lacs – 1 Mark ❖ Amount < 1 Lac – 0 Mark.		<table border="1"> <thead> <tr> <th></th> <th>CAYm1</th> <th>CAYm2</th> <th>CAYm3</th> </tr> </thead> <tbody> <tr> <td>No. of projects received</td> <td></td> <td></td> <td></td> </tr> <tr> <td>Amount (Rs.In Lakhs)</td> <td></td> <td></td> <td></td> </tr> <tr> <td>Total amount for past 3 years</td> <td></td> <td></td> <td></td> </tr> </tbody> </table> <p>Comments (if any): ❖</p>		CAYm1	CAYm2	CAYm3	No. of projects received				Amount (Rs.In Lakhs)				Total amount for past 3 years			
	CAYm1	CAYm2	CAYm3																		
No. of projects received																					
Amount (Rs.In Lakhs)																					
Total amount for past 3 years																					

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S.N.	Sub Criteria	Max. Marks	Evaluation Guidelines (Marks)	Marks Awarded		Observations of Evaluators (Provide Justifications/ Reasons)			
				Marks	Total		CAYm1	CAYm2	CAYm3
6.2.4	Consultancy Work	15	Consultancy the external sources; Cumulative CAYm1, CAYm2, CAYm3: ❖ Amount ≥ 15 Lacs – 15 Marks ❖ Amount ≥ 12 Lacs and < 15 lacs– 12 Marks ❖ Amount ≥ 9 Lacs and < 12 lacs –9 Marks ❖ Amount ≥ 6 Lacs and < 9 lacs –6 Marks ❖ Amount ≥ 3 Lacs and <6 lacs –3 Marks ❖ Amount ≥ 1 Lac and <3 lacs –1 Mark ❖ Amount <1 Lac – 0 Mark.				CAYm1	CAYm2	CAYm3
						No.of projects received			
						Amount (Rs.In Lakhs)			
						Total amount for past 3 years			
						Comments (if any): ❖ .			
6.2.5	Institution Seed Money or Internal Research Grant to its Faculty for Research Work	05	A. Amount received (6 marks) Institution seed money or Internal research grants received by faculty members; Cumulative CAYm1, CAYm2, CAYm3: ❖ Amount ≥ 6 Lacs – 6 Marks ❖ Amount ≥ 4 Lacs and < 6 lacs–4 Marks ❖ Amount ≥ 2 Lacs and < 4 lacs –2 Mark ❖ Amount < 1 Lac – 0 Mark. B. Amount utilized (4 marks)				CAYm1	CAYm2	CAYm3
						No.of projects received			
						Amount (Rs.In Lakhs)			
						Total amount for past 3 years			
						Total amount spent for past 3 years			
						Comments (if any): ❖			
Total of Criterion 6:		120	Total Marks Awarded for Criterion 6:			Grade (Y,C,W,D) Awarded for Criterion 6:			

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Criterion 7: Facilities and Technical Support (100)							
S.N.	Sub-Criteria	Max. Marks	Evaluation Guidelines (Marks)	Marks Awarded		Observations of Evaluators (Provide Justifications/ Reasons)	
				Marks	Total		
7.1	Adequate and Well-Equipped Laboratories, and Technical Manpower	50	A. Adequate and well-equipped laboratories/workshops to run the program (20)				
			B. Quality of instruments /apparatus (10)				
			C. Utilization (10)				
			D. Availability of adequate and qualified technical supporting staff (10)				
7.2	Additional Facilities Created for Improving the Quality of Learning Experience in Laboratories	20	A. Availability and relevance of additional facilities (10)				
			B. Utilization and effectiveness of facilities (05)				
			C. Relevance to POs/PSOs (05)				
7.3	Maintenance of Laboratories and Overall Ambiance	10	A. Maintenance policy (02)				
			B. Corrective & preventive maintenance (03)				
			C. Overall ambiance (05)				
7.4	Safety Measures in Laboratories	10	A. Basic safety measures (04)				
			B. Lab specific safety measure (06)				
7.5	Project Laboratory/ Research Laboratory	10	A. Availability of project laboratories/ research laboratories (04)				
			B. Utilization of project laboratories/ research laboratories (04)				
			C. Relevance to POs/PSOs (02)				
Total of Criterion 7:		100	Total Marks Awarded for Criterion 7:			Grade (Y,C,W,D) Awarded for Criterion 7:	

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Criterion 8: Continuous Improvement (80)						
S.N.	Sub-Criteria	Max. Marks	Evaluation Guidelines (Marks)	Marks Awarded		Observations of Evaluators (Provide Justifications/ Reasons)
				Marks	Total	
8.1	Actions Taken Based on the Results of Evaluation of the COs, POs, and PSOs	40				
8.1.1	Actions Taken Based on the Results of Evaluation of the COs Attainment	20	A. Documentary evidences of identification of gaps in COs Attainment (05)			
			B. Plan of action to bridge the gaps /Improvement (05)			
			C. Implementation (10)			
8.1.2	Actions Taken Based on the Results of Evaluation of the POs/PSOs Attainment	20	A. Documentary evidences of identification of gaps in POs/PSOs Attainment (05)			
			B. Plan of action to bridge the gaps/ Improvement (05)			
			C. Implementation (10)			
8.2	Academic Audit and Actions Taken thereof during the Period of Assessment	15	A. Availability of external academic audit process (02)			
			B. Plan of action to address the recommendation (03)			
			C. Record of actions/corrective measures taken during the assessment period (10)			

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S.N.	Sub-Criteria	Max. Marks	Evaluation Guidelines (Marks)	Marks Awarded		Observations of Evaluators (Provide Justifications/ Reasons)			
				Marks	Total		CAYm1	CAYm2	CAYm3
8.3	Improvement in Faculty Qualification/ Contribution	10	A. Improvement in the no. faculty with Ph.D (04) ❖ The average no. of faculty members with Ph.D. degree over the past 3 years is more than 60% compared to the required no. of faculty members with Ph.D. (04) ❖ The average no. of faculty members with Ph.D. degree over the past 3 years is more than 40% compared to the required no. of faculty members with Ph.D. (03) ❖ The average no. of faculty members with Ph.D. degree over the past 3 years is more than 20% compared to the required no. of faculty members with Ph.D. (02)				CAYm1	CAYm2	CAYm3
			B. Improvement in the no. of publications in peer reviewed journals (04)			No. faculty members with Ph.D.			
			C. Improvement in the no. of publications in conferences (02)			No. of publications in peer reviewed journals			
						No. of publications in conferences			
Comments (if any): ❖									
8.4	Improvement in Academic Performance	15	A. API of 1 st year students in the Program (05)				CAYm1	CAYm2	CAYm3
			B. API of 2 nd year students in the Program (05)			API of 1 st year students in the Program			
			C. API of 3 rd year students in the Program (05)			API of 2 nd year students in the Program			
						API of 3 rd year students in the Program			
Comments (if any): ❖									
Total of Criterion 8:		80	Total Marks Awarded for Criterion 8:			Grade (Y,C,W,D) Awarded for Criterion 8:			

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Signature (Program Evaluator 2)