

PARTA

Evaluator's Visit Report

Undergraduate Engineering Program

Tier-I

Name of the Institution

Bapatla Engineering College,

Name of the Program


UG- Electronics & Comm. Engg

Visit Dates

29th Nov. 2024 to 1st Dec. 2024.

NATIONAL BOARD OF ACCREDITATION

NBCC Place, East Tower, 4th Floor, Bhisham Pitamah
Marg, Pragati Vihar, New Delhi 110003
Tel: +91112430620-22; 01124360654; www.nbaiind.org


(Dr. Ghanshyam Singh)


(OMAR FAROOQ)

Program Evaluator Summary

Overview

The Expert team of National Board of Accreditation(NBA) conducted a three day accreditation visit from 29th Nov to 1st Dec 2024, Bapadla Engg College to evaluate UG Engineering program in Electronics & Comm. Engg

Pre visit meeting of the expert team was held on _____ at _____ to exchange the respective findings with the evaluation team members, based on review of Self-Assessment Report (SAR) and the pre-visit evaluation reports.

During the visit, the visiting team met with Head of the Institution/Dean Dr. Nazeer Shaik. The briefing on the institution was given by Dr. Nazeer Shaik and on the program was given by the Dr B. Chandra Mohan. The respective program evaluators also visited the various facilities of the program. Apart from comprehensive review of documentary evidences pertaining to various accreditation criteria, the visiting team also held meetings and discussions with the following stakeholders (kindly tick).

Faculty	<input checked="" type="checkbox"/>	Alumni	<input type="checkbox"/>
Employers	<input type="checkbox"/>	Parents	<input type="checkbox"/>
Staff members	<input checked="" type="checkbox"/>	Students	<input checked="" type="checkbox"/>

The Program Evaluation Team found that (general findings about the program to be mentioned)

Motivated and young faculty members.
Students enrollment good and alumni well placed.

Program Details

Name of the Program: B.Tech (Electronics and Communication Engineering)					
Year of Commencement	198)				
Student	Year	Sanctioned Intake	Actual Admitted (without Lateral Entry)		
	CAY (2023-2024)	180	184		
	CAYm1 (2022-2023)	180	195		
	CAYm2 (2021-2022)	180	165		
	Total Students in the Programme 1 st to Final Year	CAY CAYm1 CAYm2 753 + 752 + 746 = 2251			
Average of the CAY, CAYm1 and CAYm2	2251 / 3 = 750.33				
Faculty (Attach a Copy of faculty list compared with TimeTable)	Regular		CAY	CAYm1	CAYm2
		Professor	2	2	2
		Associate professor	4	4	4
	Contractual	Assistant professor	23	21	25
		Professor	-	-	-
		Associate professor	-	-	-
	Assistant professor		-	-	-
No. of PhD. available in the dept.			11	14	10
Student-Faculty ratio (averaged over CAY, CAYm1 and CAYm2) (Refer criteria-5.1)		$\frac{628}{29} + \frac{642}{27} + \frac{665}{31} = (21.65 + 23.77 + 21.45) / 3 = 22.29$			
Previous Accreditation (if any)	First accreditation	No. of years accredited for	3 years		
		With effect from	07.05.2003		
	Previous accreditation	No. of years accredited for	2 years		
		With effect from	04.01.2013		

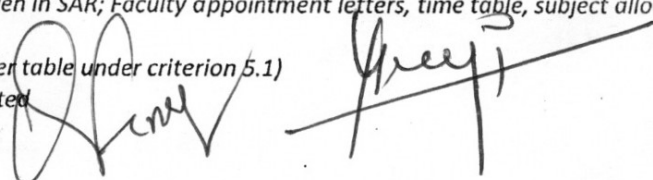
CAY: Current Academic Year

CAYm1: Current Academic Year minus 1=Current Assessment year

CAYm2: Current Academic Year minus 2=Current Assessment year minus 1

Note: Consideration of Contractual Faculty means:

- 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 visitir team during NBA visit
- Faculty to be calculated Department wise as per the format given in SAR; Faculty appointment letters, time table, subject allocation, file, salary statements and random interaction in person.
- No. of students calculation as mentioned in the SAR (please refer table under criterion 5.1)
- Faculty Qualification as per AICTE guidelines shall only be counted



Explicit observations about the program

(Please use additional sheets if necessary to elaborate)

Program title UG- Electronic & Comm. Engrg.

Strengths:

1. - Good enrollment ratio
2. - Good number of faculty having PhD and
3. most of the others pursuing PhD.
4.
5. - Neat and Clean laboratory facility
Professional society chapters & activities visible
Good SFR and faculty retention

Concerns:

1. Adequate ICT facilities available.
2. Limited awareness about OBE
3.
4. Limited participation of faculty in outside state event
5.

Weakness/Areas of improvement:

1. Quality research papers and participation in flagship
Conference
2. Placement in core hiring industry
3.
4.
5.

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Deficiencies:

1. No Sponsored Research.
2. No Industry consultancy.
3. No efforts visible for visiting/adjunct/emeritus faculty
4. _____
5. _____

Other Observations, if any:

1. _____
2. _____
3. _____
4. _____
5. _____

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D. Snow

Department/Programme Specific Criteria:

S. No.	Criteria	Max. Marks	Marks Awarded	Grade (Y,C,W, D)	Remarks
1.	Vision, Mission and Program Educational Objectives	50	38	Y	
2.	Program Curriculum and Teaching-Learning Processes	100	61	C	
3.	Course Outcomes and Program Outcomes	175	119	C	
4.	Students' Performance	100	75	Y	
5.	Faculty Information and Contributions	200	98	W	
6.	Facilities and Technical Support	80	61	Y	
7.	Continuous Improvement	75	45	C	
TOTAL		780	497		



Signature
(Program Evaluator1)



Signature
(Program Evaluator2)

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

Name of the Institution : *Batala Engg College.*

Name of the Program : *UG- Electronics & Comm. Engg.*

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

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)	
1.1	State the Vision and Mission of the Department and Institute	5	A. Availability of statements of the Department (1)	1	4	4	Y	
			B. Appropriateness/Relevance of the Statements (2)	1				
			C. Consistency of the Department statements with the Institute statements (2)	2				
1.2	State the Program Educational Objectives (PEOs)	5	Program Educational Objectives (3 to 5) (5) Availability & correctness	4	4	4	Y	
1.3	Indicate where and how the Vision, Mission and PEOs are published and disseminated among stakeholders	15	A. Adequacy in respect of publication & dissemination (3)	3	12	12	Y	
			B. Process of dissemination among stakeholders (3)	3				
			C. Extent of awareness of Vision, Mission & PEOs among the stakeholder (9)	6				
1.4	State the process for defining the Vision and Mission of the Department, and PEOs of the program	15	A. Description of process for defining the Vision, Mission of the Department (7)	5	11	11	C	No proper justification of Vision, Mission & PEOs provided.
			B. Description of process for defining the PEOs of the program (8)	6				
1.5	Establish consistency of PEOs with Mission of the Department	10	A. Preparation of a matrix of mapping PEOs and elements of Mission statement (5)	4	7	7	C	Mapping is not adequate and lacks justification & consistency.
			B. Consistency/justification of co-relation parameters of the above matrix (5)	3				
Total of Criterion 1:		50	Overall Marks and Grade for Criterion 1:	38	Y			

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Criterion 2: Program Curriculum and Teaching – Learning Processes (100)								
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)	
2.1	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	6	6	19	C	Involvement of industry in review meeting is not visible. Weak process of identification of extent of compliance.
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	4	4			
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	4	4			
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	5	5			
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)	2	11	4 42	C	Limited pedagogical initiatives. Action taken on students' feedback is not evident.
B. Pedagogical initiatives (2)			1					
C. Methodologies to support weak students and encourage bright students (2)			2					
D. Quality of classroom teaching (Observation in a Class) (2)			2					
E. Conduct of experiments (Observation in Lab) (2)			1					
F. Continuous Assessment in the laboratory (3)			2					

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			G. Student feedback on teaching learning process and actions taken (2)	1				
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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 and evaluation	15	A. Process for internal semester question paper setting, evaluation and effective process implementation (3)	2	9			Improper CO coverage in question papers/assignment.
			B. Process to ensure questions from outcomes/learning levels perspective (2)	1				
			C. Evidence of COs coverage in class test / mid-term tests (5)	3				
			D. Quality of Assignment and its relevance to COs (5)	3				
2.2.3	Quality of student projects	20	A. Identification of projects and allocation methodology to Faculty (2)	2	12		C	Students projects not much aligned to industry/society needs. Lack of understanding of POs & PSO attainment for students' projects
			B. Types and relevance of the projects and their contribution towards attainment of POs and PSOs (2)	1				
			C. Project related to Industry (3)	1				
			D. Process for monitoring and evaluation (2)	2				
			E. Process to assess individual and team performance (3)	2				
			F. Quality of completed projects/working prototypes (5)	3				
			G. Evidences of papers published /Awards received by projects etc. (3)	1				
2.2.4	Initiatives related to industry interaction.	10	A. Industry supported laboratories (2)	0	3			No industry supported lab.
			B. Industry involvement in the program curriculum (3)	1				
			C. Industry involvement in partial delivery of any regular courses for students (3)	1				
			D. Impact analysis of industry institute interaction and actions taken thereof (2)	1				
2.2.5	Initiatives related to	10	A. Industrial training/tours for students (2)	2	7			


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industry internship/ summer training		B. Industrial /internship /summer training of more than two weeks and post training Assessment (3)	2					Not all students are participating in industrial visits.
		C. Impact analysis of industrial training (2)	1					
		D. Student feedback on initiative (3)	2					
Total of Criterion 2:	100	Overall Marks and Grade for Criterion 2:			61	C		

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 the courses and the POs & PSOs	25	A. Evidence of COs being defined for every course (5) 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)	4 3 3 6	16	16	C	COs defined for all courses but lacks justification and understanding
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)	2 5	7	52	C	Improper setting of benchmarks of attainment
3.2.2	Record the attainment of Course Outcomes of all courses with respect to set attainment levels	65	Verification attainment levels as per the bench mark set for all courses (65)	45	45			
3.3	Attainment of Program Outcomes and Program Specific Outcomes	75						
3.3.1	Describe assessment tools and processes used for assessing the attainment of each of	10	A. List of assessment tools & processes (5) B. The quality/relevance of assessment tools/processes used	3 3	6	6		

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	the POs & PSOs		(5)						
3.3.2	Provide results of evaluation of each PO & PSO	65	A. Verification of documents, results and level of attainment of each PO/PSO(50)	35	45	51	C	Quality of assessment process needs improvement	
			B. Overall levels of attainment (15)	10					
Total of Criterion 3:		175	Overall Marks and Grade for Criterion 3:			119	C		

Criterion 4: Students' Performance (100)

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)				
4.1	Enrolment Ratio	20	A. $\geq 90\%$ students enrolled at the First Year Level on average basis during the previous three academic years starting from current academic year (20) B. $\geq 80\%$ students enrolled at the First Year Level on average basis during the previous three academic years starting from current academic year (18) C. $\geq 70\%$ students enrolled at the First Year Level on average basis during the previous three academic years starting from current academic year (16) D. $\geq 60\%$ students enrolled at the First Year Level on average basis during the previous three academic years starting from current academic year (14) E. Otherwise '0'	20	20	20	Y		CAY	CAYm1	CAYm2
								Sanctioned intake	180	180	180
								Students enrolled at first year level	184	195	165
								Enrolment ratio	1.02	1.08	0.92
								Average enrolment ratio (ER)	1.006 = 100.6%		
								Comments (if any): ❖			
4.2	Success Rate in the stipulated period of the program	20									
4.2.1	Success rate without backlogs in any Semester/year of study Without Backlog	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						LYG	LYGm1	LYGm2
									2019-20	2018-19	2017-18
								Success Index (SI)	0.51	0.49	0.48
								Average	0.49		

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means compartment failures in semester/year study	no or any of	applicable)	Average SI = Mean of success index (SI) for past three batches Success rate without backlogs in any year of study = 15×Average SI	7.35	7.35				Success Index (SI)	15 × 0.49 = 7.35
Comments (if any): ❖										

SN	Sub Criteria	Max. Marks	Evaluation Guidelines (Marks)	Marks Awarded		Overall		Observations of Evaluators (Provide Justifications/ Reasons)				
				Marks	Total	Marks	Grade (Y,C,W,D)		LYG	LYGm1	LYGm2	
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	4.2	4.2	7.35 + 4.2 =11.55 =12	C		LYG 2019-20	LYGm1 2018-19	LYGm2 2017-18	
									Success Index (SI)	0.84	0.94	0.73
									Average Success Index (SI)	0.84		
Comments (if any): ❖ 5 × 0.84 = 4.2												
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)) × (number of successful students /students appeared in the examination)	7.0	7.0	7.0	C	Average API for past 3 years: 7.0				
									Comments (if any): ❖			
									CAYm2 2021-22	CAYm3 2020-21	LYG 2019-20	
									API 6.38	7.22	7.41	
Avg API = 7.0												


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4.4	Placement, studies and Entrepreneurship	Higher and	30	Assessment Points=30×average placement, i.e., (P1+P2+P3)/3 Placement index (P)=[(x+y+z)/N] where, x=Number of students placed in companies or Government sector through on/off campus recruitment y=Number of students admitted to higher studies with valid qualifying scores (GATE or equivalent State or National level tests, GRE, GMAT etc.) z=No. of students turned entrepreneur in engineering/technology. N =Total number of final year students	20	20	20	C		CAYm1	CAYm2	CAYm3
										2022-23	2021-22	2020-21
									Placement Index	0.48	0.74	0.74
									Average Placement Index for past 3 years	0.65		
Comments (if any): ✦ $30 \times 0.65 = 19.5$ ≈ 20												


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)	
4.5	Professional Activities	20						
4.5.1	Professional societies/chapters and organizing engineering events	5	A. Availability & activities of professional societies/chapters (3)	3	4			
			B. Number, quality of engineering events (organized at Institute level-Institute/State/National/International) (2)	1				
4.5.2	Publication of technical magazines, newsletters, etc.	5	A. Quality & Relevance of the contents and Print Material (3)	3	4			
			B. Participation of Students from the program (2)	1				
4.5.3	Participation in inter-institute events by students of the program of study (at other	10	A. Events within the state (2)	2				
			B. Events outside the state (3)	2				

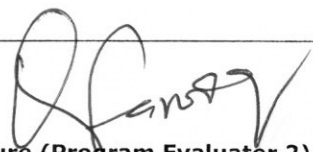
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	institutions)						
		C. Prizes/awards received in such events (5)	4	8	16	Y	
Total of Criterion 4:	100	Overall Marks and Grade for Criterion 4:			75	Y	

Criterion 5: Faculty Information and Contributions (200)																							
SN	Sub Criteria	Max. Marks	Evaluation Guidelines (Marks)	Marks Awarded		Overall	Observations of Evaluators (Provide Justifications/ Reasons)																
				Marks	Total	Marks		Grade (Y,C,W,D)															
5.1	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 ❖ ≤15 --20 marks ❖ ≤17 --18 marks ❖ ≤19 --16 marks ❖ ≤21 --14 marks ❖ ≤23 --12 marks ❖ ≤25 --10 marks ❖ >25 --0 mark				<table border="1"> <tr> <td></td> <td>CAY</td> <td>CAYm1</td> <td>CAYm2</td> </tr> <tr> <td></td> <td>2023-24</td> <td>2022-23</td> <td>2021-22</td> </tr> <tr> <td>Total No. of students(2,3,4 years) in all UG programs in Department*</td> <td>616</td> <td>618</td> <td>629</td> </tr> <tr> <td>Total No. of students (1,2 years) in PG programs in Dept.</td> <td>12</td> <td>24</td> <td>36</td> </tr> </table>		CAY	CAYm1	CAYm2		2023-24	2022-23	2021-22	Total No. of students(2,3,4 years) in all UG programs in Department*	616	618	629	Total No. of students (1,2 years) in PG programs in Dept.	12	24	36
	CAY	CAYm1	CAYm2																				
	2023-24	2022-23	2021-22																				
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			<p>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:</p> <ol style="list-style-type: none"> 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. 	12	12	12	C	<p>S=Number of Students in the Department = UG1 + UG2 +... +UGn + PG1 + ...PGn</p> <table border="1"> <tr> <td></td> <td>628</td> <td>642</td> <td>665</td> </tr> </table> <p>F = Total no.of faculty members in the Dept.(excluding first year faculty)</p> <table border="1"> <tr> <td></td> <td>29</td> <td>27</td> <td>31</td> </tr> </table> <p>SFR</p> <table border="1"> <tr> <td></td> <td>21.65</td> <td>23.77</td> <td>21.45</td> </tr> </table> <p>Average SFR for past 3 years</p> <p style="text-align: center;">22.29</p> <p>*Note: No.of students = Sanctioned intake + actual admitted lateral entry students (Refer criteria 5.1 in the SAR).</p> <p>Comments (if any): ❖</p>		628	642	665		29	27	31		21.65	23.77	21.45
	628	642	665																	
	29	27	31																	
	21.65	23.77	21.45																	

SN	Sub Criteria	Max. Marks	Evaluation Guidelines (Marks)	Marks Awarded		Overall		Observations of Evaluators (Provide Justifications/ Reasons)			
				Marks	Total	Marks	Grade (Y,C,W,D)				
5.2	Faculty Cadre Proportion	20	<p>Cadre Proportion Marks:</p> $\left[\frac{AF1}{RF1} + \frac{AF2 \times 0.6}{RF2} + \frac{AF3 \times 0.4}{RF3} \right] \times 10$ <ul style="list-style-type: none"> • If AF1 = AF2 = 0, then zero mark • Maximum marks to be limited if it exceeds 25(Refer calculation in SAR) 	15	15	15	Y		CAY	CAYm1	CAYm2
									2023-24	2022-23	2021-22
								No.of Professors	2	2	2
								No.of Associate Professors	4	4	4
								No.of Assistant Professors	25	23	27
								Comments (if any): ❖	15.02 ≈ 15		

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5.3	Faculty Qualification	20	<p>FQ=2.0x[(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 comply 1:20 Faculty Student ratio (no. of faculty and no. of students required to be calculated as per 5.1)</p>	12	12	12	C		CAY	CAYm1	CAYm2
									2023-24	2022-23	2021-22
								No.of Ph.D:	11	14	10
								No.of M.Tech:	20	15	23
								Faculty Qualification (FQ)	12.25	12.5	11.63
Average FQ for past 3 years			12.12			Comments (if any): ❖ 12.12 ≈ 12					
5.4	Faculty Retention	10	<p>A. ≥ 90% of required Faculties retained during the period of assessment keeping CAYm2 as base year (10) B. ≥ 75% of required Faculties retained during the period of assessment keeping CAYm2 as base year (8) C. ≥ 60% of required Faculties retained during the period of assessment keeping CAYm2 as base year (6) D. ≥ 50% of required Faculties retained during the period of assessment keeping CAYm2 as base year (4) E. Otherwise (0)</p>	6	6	6	C		CAY	CAYm1	
									2023-24	2022-23	
								No.of Faculty Retained	19	25	
								Total No.of Required Faculty in CAYm2	32	32	
								Percentage of faculty retained	59.37	78.12	
Average parentage of faculty retained for past 2 years			68.74%			Comments (if any): ❖					
SN	Sub Criteria	Max. Marks	Evaluation Guidelines (Marks)	Marks Awarded		Overall		Observations of Evaluators (Provide Justifications/Reasons)			
				Marks	Total	Marks	Grade (Y,C,W,D)				
5.5	Faculty competencies in correlation to Program Specific Criteria	10	<p>A. Specialization B. Research Publications C. Course Developments D. Other relevant points</p>	6	6	6	C	No course development (adv.) activity			


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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)	3	6	6	C	Website is not updated.																
			B. Availability of work on Institute Website (2)	1																				
			C. Availability of work for peer review and critique (2)	1																				
			D. Reproducibility and Reusability by other scholars for further development (2)	1																				
5.7	Faculty as participants in Faculty development /training activities / STTPs	15	For each year: Assessment= $3 \times \text{Sum} / 0.5\text{RF}$ Average assessment over three years starting from CAYm1 (Marks limited to 15)	15	15	15	Y	<table border="1"> <tr> <td></td> <td>CAYm1</td> <td>CAYm2</td> <td>CAYm3</td> </tr> <tr> <td></td> <td>2022-23</td> <td>2021-22</td> <td>2020-21</td> </tr> <tr> <td>Assessment points are:</td> <td>21.29</td> <td>20.25</td> <td>20.91</td> </tr> <tr> <td>Average assessment points for past 3 years</td> <td colspan="3">15 (max)</td> </tr> </table>		CAYm1	CAYm2	CAYm3		2022-23	2021-22	2020-21	Assessment points are:	21.29	20.25	20.91	Average assessment points for past 3 years	15 (max)		
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SN	Sub Criteria	Max. Marks	Evaluation Guidelines (Marks)	Marks Awarded		Overall		Observations of Evaluators (Provide Justifications/ Reasons)
				Marks	Total	Marks	Grade (Y,C,W,D)	
5.8	Research and Development	75						
5.8.1	Academic Research	20	A. Number of quality publications in refereed/ SCI Journals, citations, Books/Book Chapters etc. (15)	10	10			


Signature (Program Evaluator 1)


Signature (Program Evaluator 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)																	
			B. Ph.D awarded during the assessment period while working in institute (5)	4	4																			
5.8.2	Sponsored Research	20	Funded research from outside; Cumulative CAYm1, CAYm2, CAYm3: Amount >50 Lakhs- 20 Marks Amount>40 Lakhs and <=50 Lakhs - 15 Marks Amount >30 Lakhs and <= 40 Lakhs - 10 Marks Amount >= 15 Lakhs and <= 30 Lakhs - 5 Marks Amount < 15 Lakhs- 0 Mark	0	0			<table border="1"> <thead> <tr> <th></th> <th>CAYm1</th> <th>CAYm2</th> <th>CAYm3</th> </tr> </thead> <tbody> <tr> <td>No.of projects</td> <td>0</td> <td>0</td> <td>0</td> </tr> <tr> <td>Amount (Rs.In Lakhs)</td> <td>0</td> <td>0</td> <td>0</td> </tr> <tr> <td>Total amount for past 3 years (Rs.In Lakhs)</td> <td colspan="3">NIL</td> </tr> </tbody> </table> <p>Comments (if any): ❖</p>		CAYm1	CAYm2	CAYm3	No.of projects	0	0	0	Amount (Rs.In Lakhs)	0	0	0	Total amount for past 3 years (Rs.In Lakhs)	NIL		
	CAYm1	CAYm2	CAYm3																					
No.of projects	0	0	0																					
Amount (Rs.In Lakhs)	0	0	0																					
Total amount for past 3 years (Rs.In Lakhs)	NIL																							
5.8.3	Development Activities	15	A. Product development B. Research laboratories C. Instructional materials D. Working models/ charts/monograms etc.	5	5																			
5.8.4	Consultancy (From Industry)	20	Consultancy; Cumulative CAYm1, CAYm2, CAYm3: Amount >10 Lakhs- 20 Marks Amount>8 Lakhs and <=10 Lakhs - 15 Marks Amount >6 Lakhs and <8 Lakhs - 10 Marks Amount >=4 Lakhs and <6 Lakhs - 5 Marks Amount >=2 Lakhs and <4 Lakhs - 2 Marks Amount < 2 Lakhs- 0 Mark	0	0	19	D	<table border="1"> <thead> <tr> <th></th> <th>CAYm1</th> <th>CAYm2</th> <th>CAYm3</th> </tr> </thead> <tbody> <tr> <td>No.of projects</td> <td>0</td> <td>0</td> <td>0</td> </tr> <tr> <td>Amount (Rs.In Lakhs)</td> <td>0</td> <td>0</td> <td>0</td> </tr> <tr> <td>Total amount for past 3 years (Rs.In Lakhs)</td> <td colspan="3">NIL</td> </tr> </tbody> </table> <p>Comments (if any): ❖</p>		CAYm1	CAYm2	CAYm3	No.of projects	0	0	0	Amount (Rs.In Lakhs)	0	0	0	Total amount for past 3 years (Rs.In Lakhs)	NIL		
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Signature (Program Evaluator 1)


Signature (Program Evaluator 2)

5.9	Faculty Appraisal and Development (FPADS) Performance and System	10	A. A well-defined performance appraisal and development system instituted for all the assessment years (5)	4	7	7	C	Effectiveness of FDADS is not evident.					
			B. Its implementation and effectiveness (5)	3									
5.10	Visiting/Adjunct/Emeritus Faculty etc.	10	A. Provision of Visiting /Adjunct/Emeritus faculty etc.(1)	0	0	0	D	CAY/m1	CAYm1/m2	CAYm2/m3			
			B. Minimum 50 hours per year interaction per year to obtain three marks :3x3=9	0				No.of hours	0	0	0		
Total of Criterion 5:								200	Overall Marks and Grade for Criterion 5:			98	W

Comments (if any):
 ❖
 NIL.

Criterion 6: Facilities and Technical Support (80)


 Signature (Program Evaluator 1)


 Signature (Program Evaluator 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)	
6.1	Adequate and well-equipped laboratories, and technical manpower	40	A. Adequate well-equipped laboratories to run all the program-specific curriculum (25)	20	31	31	Y	
			B. Availability of adequate and qualified technical supporting staff (15)	11				
6.2	Laboratories: Maintenance and overall ambience	10	Maintenance and overall ambience (10)	8	8	8	Y	
6.3	Safety measures in laboratories	10	Safety measures in laboratories (10)	8	8	8	Y	
6.4	Project laboratory/ facilities	20	Facilities & Utilization (20)	14	14	14	C	Limited equipments and facility.
Total of Criterion 6:		80	Overall Marks and Grade for Criterion 6:			61	Y	

Criterion 7: Continuous Improvement (75)

Signature (Program Evaluator 1)

Signature (Program Evaluator 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)	
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)	9	18	18	C	Action taken and implemented is not effective.
			B. Identification of gaps/ short falls (5)	3				
			C. Plan of action to bridge the gap and its Implementation (10)	6				
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)	10	10	10	C	Not Understanding of the process needs improvement.
7.3	Improvement in Placement, Higher Studies and Entrepreneurship	10	A. Improvement in Placements numbers, quality, core hiring industry and pay packages (5)	2	5	5	W	No improvement in placement less activities to support higher studies and entrepreneurship development skills.
			B. Improvement in Higher Studies admissions (3)	2				
			C. Improvement in number of Entrepreneurs (2)	1				
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	12	12	12	C	No improvement in the quality of students admitted.
Total of Criterion 7:		75	Overall Marks and Grade for Criterion 7:			45	C	

Signature (Program Evaluator 1)

Signature (Program Evaluator 2)

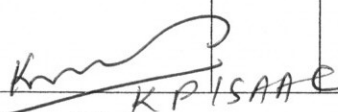
Part B-Program Observation Worksheet

Institute Level to Be Assessed by Chairman.

Name of the Institution : *Bapatla Engg College, Bapatla - 522102*Name of the Program : *Electronics & Communication Engg*

Criterion 8: First Year Academics(50)

SN	Sub Criteria	Max Marks	Evaluation Guidelines	Marks Awarded		Overall		Observations of Evaluators (Provide Justifications/Reasons)			
				Marks	Total	Marks	Grade (Y,C,W,D)				
8.1	First Year Student-Faculty Ratio (FYSFR)	5	For each year of assessment = $(5 \times 20) / \text{FYSFR}$ (Limited to Max. 5) Average of Assessment of data in CAY, CAYm1 and CAYm2 *Note: If FYSFR is greater than 25, then assessment equal to zero	4	4	4	Y		CAY	CAYm1	CAYm2
								No. of students (approved intake)	990	1020	1020
								No. of faculty members (considering fractional load)	47	47	44
								FYSFR	21.06	21.7	23.2
								Average FYSFR for past 3 years	22.00		
								Comments (if any): ❖			
8.2	Qualification of Faculty Teaching First Year Common Courses	5	A. Assessment of faculty qualification $(5x+3y)/RF$ B. Average of Assessment of previous three academic years including current academic year. (Refer 8.2. for x, y and RF)	3	3	3	C		CAY	CAYm1	CAYm2
								No. of holders: Ph.D	22	22	22
								No. of holders PG	25	25	22
								Assessment value of faculty qualification	50	51	51
								Average Assessment for past 3 years	3.6		
								Comments (if any): ❖			



Signature of Chairman

SN	Sub Criteria	Max Marks	Evaluation Guidelines	Marks Awarded		Overall		Observations of Evaluators (Provide Justifications/Reasons)
				Marks	Total	Marks	Grade (Y,C,W,D)	
8.3	First Year Academic Performance	10	Academic Performance = ((Mean of 1st Year Grade Point Average of all successful Students on a 10-point scale) or (Mean of the percentage of marks in First Year of all successful students/10)) x (successful students/number of students appeared in the examination) (Successful students are those who are permitted to proceed to the Second year)	6	6	6	C	Average API for past 3 years: 6.41 Comments (if any): ❖ Performance is average.
8.4	Attainment of Course Outcomes of first year courses	10						
8.4.1	Describe the assessment processes used to gather the data upon which the evaluation of Course Outcomes of first year is based	5	A. List of assessment processes (1)	1	3	6	C	Higher order Bloom's Taxonomy not included.
			B. The relevance of assessment tools used (4)	2				
8.4.2	Record the attainment of Course Outcomes of all first-year courses	5	Verify the records as per the benchmark set for the courses (5)	3	3			
8.5.	Attainment of Program Outcomes of all first year courses	20						
8.5.1	Indicate results of evaluation of each relevant PO/PSO	10	A. Process of computing POs/PSOs attainment level from the COs of related first year courses (5)	3	5	10	W	OBE is practised without doing the mapping correctly
			B. Verification of documents validating the above process (5)	2				
8.5.2	Actions taken based on the results of evaluation of relevant POs /PSOs	10	Appropriate actions taken (10)	5	5			
Total of Criterion 8:		50	Overall Marks and Grade for Criterion 8:		29	W		


Signature of Chairman

Criterion 9: Student Support Systems (50)								
SN	Sub Criteria	Max Marks	Evaluation Guidelines	Marks Awarded		Overall		Observations of Evaluators (Provide Justifications/Reasons)
				Marks	Total	Marks	Grade (Y,C,W,D)	
9.1	Mentoring system to help at individual level	5	Details of the mentoring system that has been developed for the students for various purposes and also state the efficacy of such system (5)	4	4	4	Y	Good mentoring system with weekly hour in the time table
9.2	Feedback analysis and reward/corrective measures taken, if any	10	A. Methodology being followed for analysis of feedback and its effectiveness (5)	4	8	8	Y	Fairly good system
			B. Record of corrective measures taken (5)	4				
9.3	Feedback facilities on	5	Feedback collection, analysis and corrective action (5)	4	4	4	Y	Good
9.4	Self-Learning	5	A. Scope for self-learning (2)	1	3	3	C	Requires improvement. A few students have taken MOOC for credit earning.
			B. Self-learning facilities, materials for learning beyond syllabus, Webinars, Podcast, MOOCs etc. and demonstrate its effective utilization (3)	2				
9.5	Career Guidance, Training, Placement	10	A. Availability of career guidance facilities (2)	2	8	8	Y	Good career guidance and placement. Requires improvement in GATE
			B. Counseling for higher studies (GATE/GRE, GMAT, etc.) (2)	1				
			C. Pre-placement training (3)	3				
			D. Placement process and support (3)	2				
9.6	Entrepreneurship Cell	5	A. Entrepreneurship initiatives (3)	2	3	3	C	System is in place Two startups incubated
			B. Data on students benefitted (2)	1				
9.7.	Co-curricular and Extracurricular Activities	10	A. Availability of sports and cultural facilities (3)	3	9	9	Y	Good NSS/NCC, club activities
			B. NCC, NSS and other clubs (3)	3				
			C. Annual students' activities (4)	3				
Total of Criterion 9:		50	Overall Marks and Grade for Criterion 9:		39	Y		



Signature of Chairman

Criterion 10: Governance, Institutional Support and Financial Resources (120)

SN	Sub Criteria	Max Marks	Evaluation Guidelines	Marks Awarded		Overall		Observations of Evaluators (Provide Justifications/ Reasons)
				Marks	Total marks	Marks	Grade (Y,C,W,D)	
10.1	Organization, Governance and Transparency	55						
10.1.1	State the Vision and Mission of the Institute	5	A. Availability of the Vision & Mission statements of the Institute (2) B. Appropriateness/Relevance of the Statements (3)	2 2	4			<p>though available Strategic plan is not an opt one.</p> <p>Service rules are available.</p>
10.1.2	Availability of the Institutional Strategic Plan and its Effective Implementation and Monitoring	25	Availability of a 5-year Strategic Plan	12 0	12			
10.1.3	Governing body, administrative setup, functions of various bodies, service rules procedures, recruitment and Promotional policies.	10	A. List the Governing Body Composition, senate, and all other academic and administrative bodies; their memberships, functions, and responsibilities; frequency of the meetings; participation details of external members and attendance therein (4) B. The published service rules, policies and procedures with year of publication (3) C. Minutes of the meetings and action-taken reports (3)	3 2 2	7	33	C.	
10.1.4	Decentralization in working and grievance redressal mechanism	5	A. Organizational Structure, List of Administrative Committees and Administrative Heads who have been delegated powers for taking administrative decisions (1) B. Specify the mechanism and composition of grievance redressal cell (1) C. Action taken report as per 'B' above (3)	1 1 2	4			
10.1.5	Delegation of financial powers	5	A. Financial powers delegated to the Principal, Heads of Departments and relevant in-charges (2) B. Demonstrate the utilization of financial powers for each of the assessment years (3)	1 2	3			
10.1.6	Transparency and availability of correct/unambiguous information in public domain	5	A. Information on the policies, rules, processes is to be made available on web site (2) B. Dissemination of the information about student, faculty and staff (2) C. Mandatory disclosure as per AICTE/AISHE on the website. (1)	1 1 1	3			

Signature of Chairman



SN	Sub Criteria	Max Marks	Evaluation Guidelines	Marks Awarded		Overall marks	Grade (Y,C,W,D)	Observations of Evaluators (Provide Justifications/ Reasons)
				Marks	Total			
10.2	Budget Allocation, Utilization, and Public Accounting at Institute level	15	Expenditure per student: <u>Rs 92,223/-</u> Fee per student: <u>Rs 67,100/=</u>					
10.2.1.	Adequacy of Budget allocation	5	A. Quantum of budget allocation for three years (3)	2	3	11	C	Budget allocation is OK but requires enhancement
			B. Justification of budget allocated for three years (2)	1				
10.2.2	Utilization of allocated funds	5	Budget utilization for three years (5)	3	8			
10.2.3	Availability of the audited statements on the institute's website	5	Availability of Audited statements on website (5)	5				
10.3.	Program Specific Budget Allocation, Utilization	30	To be evaluated in consultation with program experts					
10.3.1.	Adequacy of budget allocation	10	A. Quantum of budget allocation for three years (5)	3	5	15	W	Utilisation is low
			B. Justification of budget allocated for three years (5)	2				
10.3.2	Utilization of allocated funds	20	Budget utilization for three years (20)	10	10			
10.4	Library	20						
10.4.1	Quality of learning resource (hard/soft)	10	A. Availability of relevant learning resource including e-resource and digital library (7)	4	6	15	Y	1 Gbps bandwidth.
			B. Access to student (3)	2				
10.4.2.	Internet	10	A. Available bandwidth (4)	4	9			
			B. Wi Fi availability (2)	2				
			C. Internet access in labs, classrooms, library and offices of all Departments (2)	2				
			D. Security mechanism (2)	1				
Total of Criteria 10:		120	Overall Marks and Grade for Criterion 10:			74	C	

Signature of Chairman