

PART A

Evaluator's Visit Report

Undergraduate Engineering Program

Tier-I

Name of the Institution

Rajiv Gandhi Memorial College of Engineering and Technology

Name of the Program

Electronics and Communication Engineering UG program

Visit Dates :

24-26th March, 2017

NATIONAL BOARD OF ACCREDITATION

NBCC Place, East Tower, 4th Floor, Bhisham Pitamah Marg,
Pragati Vihar, New Delhi 110003

Tel: +91 112430620-22; 01124360654; www.nbaind.org

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26/03/2017

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26/03/2017

ECE

Program Details

Name of the Program			
Electronica and Communication Engineering UG program			
Year of Commencement			
Student	Year	Sanctioned Intake	Actual Admitted
	CAY (2015 - 2016)	240	229 + Lateral 30
	CAY m1 (2014 - 2015)	180	168 + Lateral 38
	CAY m2 (2013 - 2014)	180	179 + Lateral 36
	Total Students in the Programme 1 st to Final Year	680+ 231(1 st year) = 911	
	Averaged over three assessment years	227	
Placement %	CAY (2015 - 2016)	44.4%	
	CAY m1 (2014 - 2015)	57.4%	
	CAY m2 (2013 - 2014)	58.3%	
	Averaged over three assessment years	53.36%	
Faculty (Attach a Copy of faculty list compared with Time Table)	Regular	Professor	4
		Associate professor	3
		Assistant professor	35
	Ad-hoc : NA	Professor	
		Associate professor	
		Assistant professor	
	Contractual : NA	Professor	
		Associate professor	
		Assistant professor	
	Student-Teacher ratio	16.57	
Visiting/guest faculty (Total Numbers of Hours)	NIL		
Previous accreditation(if any)	First accreditation	No. of years accredited for	3 Years
		With effect from	12.09.2003
	Previous accreditation	No. of years accredited for	2 Years
		With effect from	18.09.2013

CAY: Current Assessment Year

CAYm1: Current Assessment Year minus 1

CAYm2: Current Assessment Year minus 2

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Program Evaluator Summary

Overview

The Expert team of National Board of Accreditation (NBA) conducted a three day accreditation visit from 24th March to 26th March, 2017 in Rajiv Gandhi Memorial College of Engineering and Technology to evaluate UG Engineering program Electronics and Communication Engineering

Pre visit meeting of the expert team was held on 23rd March at Hotel Suraj, Nandyal at in the room of Chairman 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 Chairman of the Governing Body, Dr. M. Santhi Ramudu, Principal of the Institution, Dr. T. Jayachandra Prasad and about the Dept by Dr. P V Gopi Krishna Rao, Associate Professor of ECE Dept on behalf of HOD, ECE. The briefing on the institution was given by the Principal, Dr. T. Jayachandra Prasad. The respective program evaluators also visited the various facilities of the program. Apart from comprehensive review of documental evidences pertaining to various accreditation criteria, the visiting team also held meeting and discussions with the following stakeholders (kindly tick).

Faculty	<input checked="" type="checkbox"/>	Alumni	<input checked="" type="checkbox"/>
Employers	<input checked="" type="checkbox"/>	Parents	<input checked="" 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) _

The program has standard syllabi at par with the national standards as well as industry requirements. The program mission and visions are quite well suited to be followed in order to excel as a national centre of academic importance. The student performance evaluation processes, the teaching quality, the teacher student ration are up to the marks. Laboratory equipment, tools and software packages are standard and well maintained, although there are scopes to improve the infrastructure to enhance efforts in research that bolsters the mission and vision of the institution itself. Faculty retention ratio is impressive. Proportions of successful students indicate the good overall performance of the program. Good management and fund distribution are noticeable points about the program. Overall The program qualifies to be a standard offering quality skills, opportunity and education to electronics and communication engineering students. However, there are some scopes to improve as detailed in later sections.

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Explicit observations about the program

(Please use additional sheets if necessary to elaborate)

Program title Electronics and Communication Engineering UG Program

Strengths:

1. Curriculum and Course syllabi are updated to meet the present needs of qualification standards of electronics and communication engineering.
2. Good leadership at the Departmental level.
3. Young and energetic faculties with good gender ratio.
4. Academic calendar is followed.

Concerns:

1. focus on Course outcomes as the distribution of questions in Internal question papers are less distributed (ref Table 8.1 and 8.2)
2. Average success rates of students in achieving graduation without any backlogs satisfies criteria, which, however, has to be taken care of with more intense focus to achieve better proportion.
3. Elective courses, although diverse, however, lacks even distribution among students due to less number of designated faculty for the particular subjects.
4. Number of faculty members with PhD are less.
5. Less number of final year projects are with substantial merits or realizing any innovative systems and thereby weakening the vision 3 and PEO-3 and PEO-4 of the institution
6. Class rooms are lesser in number and less spacious. Laboratory ambience is not proper and tools, although standard, however, not sufficient to aid in cutting edge technology and research.
7. Extremely poor sitting space for faculty and most of the faculty members donot have minimum infra-structures along with internet facilities.
5. Department has $240 \times 4 = 960$ students plus 20% lateral entry. But budget utilized in are the Department is extremely inadequate. No sophisticated equipments like spectrum Analyzer or network analyzers etc are available.
6. Faculty/ staff and student ratio needs improvement.

Weakness/Areas of improvement:

management point of view:

1. Intake of more number of faculty members with PhD degree or with prolonged industry exposure.
2. Investment of funds in purchasing better laboratory equipments which might aid in better researches in contemporary and futuristic technologies

Faculty and staff Point of view:

3. Training of laboratory assistants on new systems on a periodic basis are required.

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4. Arrangement of workshops on latest technology organized by various core companies in the core sector.
5. Question patterns for testing the performance of the students are required to be more design oriented intriguing innovative thought process of the students and percentile scoring system for internal marks generation to normalize student performances.
6. Counselling and encouraging students to take up research oriented thesis topics which might increase number of publication in each academic year.
7. Consultancy works need immediate attention.

student point of view:

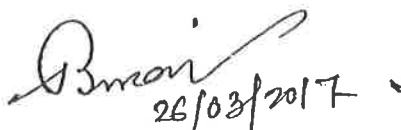
8. facility for training and workshops for better performing students at elite institutes during inter-semester breaks.
9. Arrangement for remedial sessions/ workshop/ talks by eminent professors/ research scholars from other elite institutes on the topics where the performance of the students are less successful.

Deficiencies:

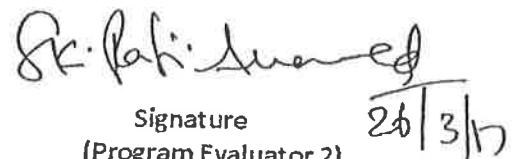
1. Course lacks topics covering basics on analog or mixed signal IC design.
2. lack of use of Industry oriented software packages like Cadence(just purchased few month before but utilization not started), Synopsys.
3. Number of accesses to high quality research based journals (like IEEE, Nature, Science Direct) should be increased and opened to students and faculty alike.
4. Lack of advanced embedded system kits using processors like AVR/PIC/ ARM cores are noticeable.

Other Observations, if any:

1. Placement focuses mainly on service organizations, whereas more product organization needs to be roped in to provide training and workshops to bridge the gap between industry and academic courses.


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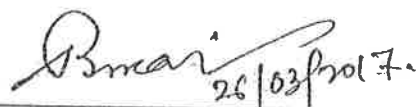
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(Program Evaluator 1)
Prof. Subir Kumar Sarkar


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Signature
(Program Evaluator 2)
Dr. Shaik Rafi Ahamed

Department/Programme Specific Criteria: UG- ECE Program,

S. No.	Criteria	Max. Marks	Marks Awarded	Grade (Y, C, W, D)	Remarks
1.	Vision, Mission and Program Educational Objectives	50	38	Y	Passed
2.	Program Curriculum and Teaching-Learning Processes	100	61	C	Passed with concern
3.	Course Outcomes and Program Outcomes	175	109	C	Passed with concern
4.	Students' Performance	100	75	Y	Passed
5.	Faculty Information and Contributions	200	104	W	Passed with concern. Weakness (52/100)
6.	Facilities and Technical Support	80	60	Y	Passed
7.	Continuous Improvement	75	46	C	Passed with concern
TOTAL		780	493	C	Passed with concern


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S.No.	Sub Criteria	Max. Marks	Evaluation Guidelines	Marks		Overall		Observations of Evaluators (Provide Justifications/ Reasons)
				Total	Marks	Grade (Y,C,W,D)	Marks	
Criterion 4: Students' Performance (100)								
4.1.	Enrollment Ratio (20)	20	<p>A. >= 90% students enrolled at the First Year Level on average basis during the period of assessment (20)</p> <p>B. >= 80% students enrolled at the First Year Level on average basis during the period of assessment (18)</p> <p>C. >= 70% students enrolled at the First Year Level on average basis during the period of assessment (16)</p> <p>D. >= 60% students enrolled at the First Year Level on average basis during the period of assessment (14)</p> <p>E. Otherwise '0'.</p>	20	20	Y	20	ER=94.21
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 means: No repeat(s) in any course in any semester/year of study	15	<p>SI= (Number of students who graduated from the program without repeat(s) in any course)/(Number of students admitted in the first year of that batch and admitted in 2nd year via lateral entry and separate division, if applicable)</p> <p>Average SI = Mean of success index (SI) for past three batches</p> <p>Success rate without backlogs in any year of study = $15 \times \text{Average SI}$</p> <p>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)</p> <p>Average SI = mean of success index (SI) for past three batches</p> <p>Success rate = $5 \times \text{Average SI}$</p>	8	8		12	SR=7.1
4.2.2.	Success rate with backlog in stipulated period (actual duration of the program)	5		4	4			Success rate=4
4.3.	Academic Performance in Second Year	10	<p>Academic Performance = Average API (Academic Performance Index)</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 Second Year/10)) x (successful students/number of students appeared in the examination)</p> <p>Successful students are those who are permitted to proceed to the third year</p>	7	7	C	7	Academic Performance=6.09, the standard of students' AP is not maintained

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4.4.	Placement, Higher studies and Entrepreneurship	30	Assessment Points = $30 \times$ 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	22	22	2.2	€	Placement, Higher studies and Entrepreneurship = 23.04, inconsistent, no significant entrepreneur activities.
4.5.	Professional Activities	20						No. of professional activities should be increased
4.5.1.	Professional societies/chapters and organizing engineering events	5	A. Availability & activities of professional societies/chapters (3) B. Number, quality of engineering events (organized at institute, Level- Institute/State/National/International) (2)	3	4			No. of engineering events should be increased
4.5.2.	Publication of technical magazines, newsletters, etc.	5	A. Quality & Relevance of the contents and Print Material (3) B. Participation of Students from the program (2)	2	4	1.4	€	Publication of newsletters and technical magazines should be increased.
4.5.3.	Participation in inter-institute events by students of the program of study (at other institutions)	10	A. Events within the state (2) B. Events outside the state (3) C. Prizes/awards received in such events (5)	2	6			Number of participation in inter-institute, or national level (like MyGov Innovation, Texas Innovation challenges etc) competitions are declining
Total of Criterion 4:		100	Overall Marks and Grade for Criterion 4:	75	Y			

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

Name of the Institution :Rajeev Gandhi Memorial College of Engineering & Technology, Nandya, Andhra Pradesh
Name of the Program :U.G.-Department of Electronics & Communications Engineering

S.No.	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	3	3	3	C	More appropriate choice for words "train" could be more appropriately rephrased as "educate" in defining PEOs.
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	13	13	Y	
			B. Process of dissemination among stakeholders (3)	2				
			C. Extent of awareness of Vision, Mission & PEOs among the stakeholder, i.e., primarily faculty and students (9)	8				
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) B. Description of process for defining the PEOs of the program (8)	6	12	12	Y	
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)	3	6	6	C	process is not well-defined.
			B. Consistency/justification of mapping of the matrix (5)	3				
Total of Criterion 1:				38	38	38	Y	Up to the mark

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

Name of the Institution :Rajeev Gandhi Memorial College of Engineering & Technology, Nandyal, Andhra Pradesh
 Name of the Program :U.G.-Department of Electronics & Communications Engineering
 Duration of visit : 24th - 26th March, 2017

S.No.	Sub Criteria	Max. Marks	Evaluation Guidelines	Marks Awarded		Overall		Observations of Evaluators (Provide Justifications/ Reasons)
				Marks	Total	Marks	Grade (Y,C,W,D)	
Criterion 2: Program Curriculum and Teaching – Learning Processes (100)								
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	8	8			
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	6	6			In skill development courses verities is included, however, laboratory setups for practical implementation in FPGA fabrics are not available, which weakens PEO-3
2.2.	Teaching-Learning Processes	70						
2.2.1	Describe the Process followed to improve quality of Teaching Learning	15	A. Adherence to Academic Calendar (2) B. Pedagogical initiatives (2) C. Methodologies to support weak students and encourage bright students(2) D. Quality of classroom teaching (Observation in a Class) (2) E. Conduct of experiments (Observation in Lab)(2) F. Continuous Assessment in the laboratory (3) G. Student feedback on teaching learning process and actions taken (2)	2	9			More extensive assessment in laboratory are required. Mini projects/practical assignments can be given to the students from 2nd year and should be examined weekly. Interested candidates may also be motivated for paper publications based on their hardware or software mini projects. No evidences on actions taken based on students feedback
2.2.2.	Quality of end semester examination, internal semester question papers, assignments and evaluation	15	A. Process for internal semester question paper setting, evaluation and effective process implementation (3) B. Process to ensure questions from outcomes/learning levels perspective (2) C. Evidence of COs coverage in tests/ mid-term tests (5) D. Quality of Assignment and its relevance to COs (5)	1	9			Separate sets of question papers can be given for proper evaluation

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Identification of projects and allocation methodology to Faculty		39	W	
2.2.3. Quality of student projects	20	B. Types and relevance of the projects and their contribution towards attainment of POs and PSOs(2)	2	1. Individual performance assessment is missing. 2. Less Projects on core ECE
		C. Project related to Industry (3)	1	
		D. Process for monitoring and evaluation (2)	1	
		E. Process to assess individual and team performance (3)	1	
		F. Quality of completed projects, working prototypes (5)	2	
		G. Evidences of papers published /Awards received by projects etc. (3)	3	
		A. Industry supported laboratories (2)	2	
		B. Industry involvement in the program design and Curriculum (3)	0	
		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)	2	
2.2.4. Initiatives related to industry interaction	10	A. Industrial training/tours for students (2)	1	1. More involvement of core industry other than IT company to be interacted. 2. Industry -Academia meet to be organised which is missing
		B. Industrial Internship /summer training of more than two weeks and post training Assessment (3)	1	
		C. Impact analysis of incustrial training (2)	2	
		D. Student feedback on initiative (3)	1	
2.2.5. Initiatives related to industry internship/summer training	10	A. Industrial training/tours for students (2)	1	1. More core industry involvement on training is desired 2. Student feedback is related to the curriculum course based and not specifically assessing intership/summer training standard
		B. Industrial Internship /summer training of more than two weeks and post training Assessment (3)	1	
		C. Impact analysis of incustrial training (2)	2	
		D. Student feedback on initiative (3)	1	
Total of Criterion 2:		61	C	Needs Improvement

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Criterion 5: Faculty Information and Contributions (200)		Evaluation Guidelines		Marks Awarded		Overall		Observations of Evaluators (Provide Justifications/ Reasons)
S.No.	Sub Criteria	Max. Marks		Marks	Total	Marks	Grade (Y,C,W,D)	
5.1	Moderate SFR	20	<p>Marks to be given proportionally from a maximum of 20 to a minimum of 10 for average SFR between 15:1 to 20:1, and zero for average SFR higher than 20:1 (Refer calculation in SAR)</p> <p>Regular Faculty means:</p> <ul style="list-style-type: none"> • Full time on roll with prescribed pay scale. An employee on contract for a period of not less than two years AND drawing consolidated salary not less than applicable gross salary shall only be counted as a regular employee. • Prescribed pay scales means pay scales notified by the AICTE/Central Government and Implementation as prescribed by the State Government. In case State Government prescribes lesser consolidated salary for a particular cadre then same will be considered as reference while counting faculty as a regular faculty. <p>Cadre Proportion Marks =</p> $\left[\frac{AE1}{RF1} + \frac{AE2}{RF2} \right] + \left[\frac{AE3}{RF3} \times 0.4 \right] \times 10$ <ul style="list-style-type: none"> • If AF1 = AF2 = 0 then zero marks • Maximum marks to be limited if it exceeds 20 (Refer calculation in SAR) <p>FQ = $2.0 \times \frac{[10X + 6Y]}{F}$ where</p> <ul style="list-style-type: none"> X is no. of faculty with Ph.D., Y is no. of faculty with M.Tech, F is no. of faculty required to comply 1:1.5 Faculty:Student ratio (no. of faculty and no. of students required to be calculated as per 5:1) 	14	14	14	C	Moderate SFR of 16.39
5.2	Faculty Cadre Proportion	20		14	14	14	C	14.07
5.3	Faculty Qualification	20		12	12	12	C	FQ=11.77
5.4	Faculty Retention	10	A. ≥ 90% of required Faculties retained during the period of assessment keeping CAYm 2 as base year (10)	0	8	8	Y	
			B. ≥ 75% of required Faculties retained during the period of assessment keeping CAYm 2 as base year (8)	0				
			C. ≥ 60% of required Faculties retained during the period of assessment keeping CAYm 2 as base year (6)	0				
			D. ≥ 50% of required Faculties retained during the period of assessment keeping CAYm 2 as base year (4)	0				
5.5	Faculty competencies in correlation to Program Specific Criteria	10		8	8	8	Y	

Signature (Program Evaluator 1) *Banerjee* 20/12/17

Signature (Program Evaluator 2) *Sr. Saji. Anand* 20/12/17

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)	2	5	5	V _g	Approaches like use of college intranet to provide environments of online tests, e-assignments, Question banks, virtual laboratory etc. can be adopted
			B. Availability of work on Institute Website (2)	1				
5.7.	Faculty as participants in Faculty development /training activities /STTPs	15	C. Availability of work for peer review and critique (2)	1	7	7	V _g	Very few
			D. Reproducibility and Reusability by other scholars for further development (2)	1				
5.8.	Research and Development	75	For each year: Assessment = 3xSum/0.5RF Average assessment over three years (Marks limited to 15)	7	7	7		
5.8.1.	Academic Research	20	A. Number of quality publications in refereed/SCI Journals, citations, Books/Book Chapters etc. (15)	12	15			
			B. PhD awarded during the assessment period while working in the institute (5)	3				
5.8.2	Sponsored Research	20	Funded research from outside; Cumulative during Assessment years: Amount > 50 Lacs - 20 Marks Amount > 40 Lacs and <= 50 Lacs - 15 Marks Amount > 30 Lacs and <= 40 Lacs - 10 Marks Amount >= 15 Lacs and <= 30 Lacs - 5 Marks Amount < 15 Lacs - 0 Mark	10	10			
			A. Product Development B. Research laboratories C. Instructional materials D. Working models/charts/monograms etc. Consultancy; Cumulative during Assessment years: Amount > 10 Lacs - 20 Marks Amount >= 8 Lacs and <= 10 Lacs - 15 Marks Amount >= 6 Lacs and < 8 Lacs - 10 Marks Amount >= 4 Lacs and < 6 Lacs - 5 Marks Amount >= 2 Lacs and < 4 Lacs - 2 Mark Amount < 2 Lacs - 0 Mark	6	6	31	V _g	Micro initiative is required in this area. NO consultancy from Industry.
5.8.3	Development Activities	15						
5.8.4.	Consultancy from Industry).	20	A. Well defined performance appraisal and development system instituted for all the assessment years (5)	2	4	4	V _g	NO such system exists.
			B. Its implementation and effectiveness (5)	2				
5.9.	Faculty Performance Appraisal and Development System (FPADS)	10	Provision of Visiting /Adjunct/Emeritus faculty etc.(1)	1	1	1		No adjunct faculties
5.10.	Visiting /Adjunct/Emeritus Faculty etc.	10	Minimum 50 hours per year interaction per year to obtain three marks : 3 x 3 = 9	0	0	0		
Total of Criterion 5:		200	Overall Marks and Grade for Criterion 5:	104	104		V _g	Needs attention

Signature (Program Evaluator 1) *Dr. Raji. Aruned* Date *26/3/17*

Criterion 6: Facilities and Technical Support (80)						
S.No.	Sub Criteria	Max. Marks	Evaluation Guidelines	Marks Awarded		Overall Grade (Y, C, W, D)
				Marks	Total	
6.1	Adequate and well equipped laboratories, and technical manpower	40	A. Adequate well-equipped laboratories to run all the program-specific curriculum (25) B. Availability of adequate and qualified technical supporting staff (15)	20	29	C
				9		
6.2	Laboratories: Maintenance and overall ambience	10	Maintenance and overall ambience (10)	7	7	C
6.3	Safety measures in laboratories	10	Safety measures in laboratories (10)	9	9	Y
6.4	Project laboratory/facilities	20	Facilities & Utilization (20)	15	15	Y
Total of Criterion 6:				60	60	Y

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Criterion 7: Continuous Improvement (75)									
S.No.	Sub Criteria	Max. Marks	Evaluation Guidelines	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 COs, POs and PSOs	30	A. Documentation of PQs and PSOs attainment levels (15) B. Identification of gaps/shortfalls (5) C. Plan of action to bridge the gap and its implementation (10) Assessment shall be based on its conduct and actions taken in relation to continuous improvement (15)	9	18	18	C	methodology is not well-defined. Limited results have been used.	
7.2.	Academic Audit and actions taken during the period of Assessment	15	A. Improvement in Placements (5) B. Improvement in Higher Studies (3) C. Improvement in number of Entrepreneurs (2)	10	10	10	C	No efficient system exists	
7.3.	Improvement in Placement, Higher Studies and Entrepreneurship	10	Assessment is based on improvement in terms of ranks/score in qualifying state level/national level entrances tests, percentage Physics, Chemistry and Mathematics marks in 12th Standard and percentage marks of the lateral entry students	3	5	5	C	No significant improvement appears in Placement, higher studies and entrepreneurship.	
7.4.	Improvement in the quality of students admitted to the program	20		0	13	13	C	Quality of lateral entry students not satisfactory.	
Total of Criterion 7:						46	C	Needs improvement	

Dr. Perli. Arunima 26/3/17

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Part B-Program Assessment Worksheet

Institute Level Criteria to be Assessed by Chairman

Name of the Institution Rajeev Gandhi Memorial College of Engg. and Tech., Mandya, A.P.
 Name of the Program UG - Electronics and Comm. Engg.

S.No.	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 = $(5 \times 15) / \text{FYSFR}$ (Limited to Max. 5)	5	5	5	Overall Grade for 8.1	Mention numbers (FYSFR = 15)
8.2.	Qualification of Faculty Teaching First Year Common Courses	5	A. Assessment of faculty qualification $(5x + 3y) / \text{RF}$ B. Average of Assessment of last three years (Refer 8.2. for x, y and RF)	5	3.3	3	Overall Grade for 8.2	Mention numbers 3
8.3.	First Year Academic Performance	10	Academic Performance = $((\text{Mean of 1st Year Grade Point Average of all successful Students on a 10 point scale}) \text{ or } (\text{Mean of the percentage of marks in First Year of all successful students}/10)) \times (\text{successful students}/\text{number of students appeared in the examination})$ (Successful students are those who are permitted to proceed to the Second year)	10	4.25	4	Overall Grade for 8.3	FYAP to be improved considerably Mention numbers
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	1			
8.4.2.	Record the attainment of Course Outcomes of all first year courses	5	B. The relevance of assessment tools used (4)	4	4			
8.5.	Attainment of Program Outcomes of all first year courses	20	Verify the records as per the benchmark set for the courses (5)	5	3			
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)	5	4			
8.5.2.	Actions taken based on the results of evaluation of relevant POs/PSOs	10	B. Verification of documents validating the above process (5)	5	3			
Total of Criterion 8:				10	8			
				Overall Marks and Grade for Criterion 8:		35	C	

Signature (Chairman)

Criterion 9: Student Support Systems (50)

S.No.	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)	5	3	Overall Marks for 9.1	Overall Grade for 9.1	Effectiveness to be enhanced
9.2.	Feedback analysis and reward /corrective measures taken, if any	10	A. Methodology being followed for analysis of feedback and its effectiveness (5) B. Record of corrective measures taken (5)	5 5	4 3	Overall Marks for 9.2	Overall Grade for 9.2	Record of corrective measures to be properly maintained
9.3.	Feedback on facilities	5	Feedback collection, analysis and corrective action (5)	4 5	4	Overall Marks for 9.3	Overall Grade for 9.3	
9.4.	Self Learning	5	A. Scope for self-learning (2) B. Self Learning facilities, materials for learning beyond syllabus, Webinars, Podcast, MOOCs etc. and demonstrate its effective utilization (3)	2 3	1 2	Overall Marks for 9.4	Overall Grade for 9.4	Facilities to be improved further
9.5.	Career Guidance, Training, Placement	10	A. Availability of career guidance facilities (2) B. Counseling for higher studies (GATE/GRE, GMAT, etc.) (2) C. Pre-placement training (3) D. Placement process and support (3)	2 2 3 3	1 2 3 2	Overall Marks for 9.5	Overall Grade for 9.5	
9.6.	Entrepreneurship Cell	5	A. Entrepreneurship initiatives (3) B. Data on students benefitted (2)	3 2	2	Overall Marks for 9.6	Overall Grade for 9.6	To be identified to be implemented
9.7.	Co-curricular and Extra-curricular Activities	10	A. Availability of sports and cultural facilities (3) B. NCC, NSS and other clubs (3) C. Annual students activities (4)	3 3 4	2 2 3	Overall Marks for 9.7	Overall Grade for 9.7	Scope for improvement exists
Total of Criterion 9:				Overall Marks and Grade for Criterion 9:		35	C	

M. R. R.

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

S.No.	Sub Criteria	Max. Marks	Evaluation Guidelines	Marks Awarded		Overall		Observations of Evaluators (Provide Justifications/Reasons)
				Marks	Total	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 3	20	5	Y	
10.1.2.	Availability of the Institutional Strategic Plan and its Effective Implementation and Monitoring	25	Availability of a 5 year Strategic Plan.	25	20	20	Y	
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 and its Sub Committees, 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)	4 3 3	9	9	Y	
10.1.4.	Decentralisation 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 of representations (sample) (3)	1 1 3	4	4	Y	
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) 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)	2 3 2 2 2 1	3	3	C	Delegation to be determined
10.1.6.	Transparency and availability of correct/unambiguous information in public domain	5		2 2 1	5	5	Y	

M. R. B. B. B.

10.2.	Budget Allocation, Utilization, and Public Accounting at Institute level	15	Expenditure per student: 70,000/- Fee per student: 86,800/-			
10.2.1.	Adequacy of Budget allocation	5	A. Quantum of budget allocation for three years (3) B. Justification of budget allocated for three years (2)	3 2	5 5	Overall Grade for 10.2
10.2.2.	Utilization of allocated funds	5	Budget utilization for three years (5)	5	5	Overall Marks for 10.2
10.2.3.	Availability of the audited statements on the Institute's website	5	Availability of Audited statements on website (5)	5	5	
10.3.	Program Specific Budget Allocation, Utilization	30	To be evaluated In consultation with the Program Experts			Overall Grade for 10.3
10.3.1.	Adequacy of budget allocation	10	A. Quantum of budget allocation for three years (5) B. Justification of budget allocated for three years (5)	5 5	4 4	
10.3.2.	Utilization of allocated funds	20	Budget utilization for three years (20)	20	18	
10.4.	Library and Internet	20				Overall Marks for 10.4
10.4.1.	Quality of learning resources (hard/soft)	10	A. Availability of relevant learning resources including e-resources and Digital Library (7) B. Accessibility to students (3)	7 3	6 2	
10.4.2.	Internet	10	A. Available bandwidth (4) B. Wi Fi availability (2)	4 2	3 1	
			C. Internet access in labs, classrooms, library and offices of all Departments (2) D. Security mechanism (2)	2 2	2 2	
				2	2	
Total of Criterion 10:		120		Overall Marks and Grade for Criterion 10:		103 Y

M. R. - Bank

ECE

- 17) Consultancy
- 18) I/O/T/S - need to be improved
- 19) Remedial/workshop by eminent professors.
- 20) Course latter mind: AVR/ARM
- 21) Industry oriented industry s/w
- 22) TAFE should be included
- 23) AVR/ARM/ need to be taken
- 24) Placement for product designers



NBA - Exit meeting

BCP

26/3/2017

- 1) Good behavior.
- 2) Curriculum updated / good
- 3) Good leadership
- 4) 90% intake
- 5) good faculty
- 6) Electives distribution.
- 7) NE of PhD less & Project quality
- 8) Class less / less space
- 9) Lab space is less / ambids
- 10) Poor faculty rooms
- 11) NE sophisticated equipment.
- 12) SFR improvement
- 13) intake of more PhD / prolonged industry people
- 14) lab investment
- 15) Training of staff / workshops / innovation for inland
- 16) Counsellors for research oriented topics