The Annual Quality Assurance Report (AQAR) of the IQAC

All NAAC accredited institutions will submit an annual self-reviewed progress report to NAAC, through its IQAC. The report is to detail the tangible results achieved in key areas, specifically identified by the institutional IQAC at the beginning of the academic year. The AQAR will detail the results of the perspective plan worked out by the IQAC. (*Note: The AQAR period would be the Academic Year. For example, July 1, 2012 to June 30, 2013*)

Part - A

	P	Part – A
1.	Details of the Institution	
1.1	Name of the Institution	R.V. College of Engineering
1.2	Address Line 1	R.V. Vidyaniketan Post
	Address Line 2	8 th Mile, Mysuru Road
	City/Town	Bengaluru
	State	Karnataka
	Pin Code	560059
	Institution e-mail address	principal@rvce.edu.in
	Contact Nos.	080 - 67178021, 67178020
	Name of the Head of the Institution	Dr. Subramanya K N
	Tel. No. with STD Code	080 – 67178161, 67178020
	Mobile	9663699299
	Name of the IQAC Co-ordinator	Dr. N.K. Srinath
	Mobile	9845293550
	IQAC e-mail address	iqac@rvce.edu.in
1.3	NAAC Track ID	KACOGN20108
1.4	NAAC Executive Committee No. & Date (For Example EC/32/A&A/143 dated 3-5-2004. This EC no. is available in the right corner- bottom of your institution's Accreditation Certificate)	EC(SC)/10/A&A/12.1 dt. 15.11.2015

1.5 Website address

rvce.edu.in

Web-link of the AQAR For ex. http://www.ladykeanecollege.edu.in/ AQAR2012-13.doc

http://rvce.edu.in/sites/default/files/AQAR2015-16.pdf

1.6 Accreditation Details

Sl. No.	Cycle	Grade	CGPA	Year of Accreditation	Validity Period
1	1st Cycle	В	2.8	15/11/2015	15/11/2020

NBA (National Board of Accreditation): UG Programmes (Current Status)

The Engineering (UG) Programmes were accredited by National Board of Accreditation (NBA) in Tier-I Format. All the eligible UG programs are accredited for a period of 03 years. Consequent to the above approval, the status of NBA Accreditation for the UG Programmes is as follows:

SNo	Department/Programme	Accreditation date	Duration	Valid up-to
1	Civil Engg.	01.07.2016	3 Years	30.06.2019
2	Mechanical Engg	01.07.2015	3 Years	30.06.2018
3	Electrical & Electronics Engg	18.09.2013	2 Years	18.09.2015
4	Electronics And Communication		3 Years	
	Engg	01.07.2016		30.06.2019
5	Industrial Engg & Management	18.09.2013	2 Years	18.09.2015
6	Electronics & Instrumentation Engg	18.09.2013	2 Years	18.09.2015
7	Chemical Engg.	01.07.2015	3 Years	30.06.2018
8	Computer Science & Engg	01.07.2016	3 Years	30.06.2019
9	Telecommunication Engg	01.07.2015	3 Years	30.06.2018
10	Information Science & Engg	18.09.2013	2 Years	18.09.2015
11	Biotechnology	01.07.2015	3 Years	30.06.2018

The status of NBA Accreditation for the PG Programmes is as follows:

SNo.	Department/Programme	Accreditation	Duration	Valid up-to
		date		
1	MCA	18.9.2013	3 Years	18.9.2016
2	Product Design Manufacturing	06.05.2014	3 Years	06.05.2017
3	VLSI & Embedded System	18.9.2013	3 Years	18.9.2016
4	Communication Systems.	18.9.2013	3 Years	18.9.2016
5	Bio Medical Signal Processing	06.08.2014	3 years	06.08.2017

1.7 Date of Establishment of IQAC: DD/MM/YYYY

30/03/ 2016

1.8 AQAR for the year (for example 2010-11)	2015 - 16
1.9 Details of the previous year's AQAR submitted to NAAC after the latest Assessment and Accreditation by NAAC ((for example AQAR 2010-11submitted to NAAC on 12-10-2011)	Not applicable
1.10 Institutional Status University State Central	Deemed Private
Affiliated College Yes	No No
Constituent College Yes	No 🗸
Autonomous college of UGC Yes	No No
Regulatory Agency approved Yes Institution (eg. AICTE, BCI, MCI, PCI, NCI)	No
Type of Institution Co-education	Men Women
Urban	Rural Tribal
Financial Status Grant-in-aid	UGC 2(f) UGC 12B
Grant-in-aid + Self Financing	Totally Self-financing
1.11Type of Faculty/Programme Arts Science Commerce Law	PEI (Phys Edu)
TEI (Edu) Engineering Health Science	Management
Others (Specify) Master of Computer Applications	3
1.12 Name of the Affiliating University (for the Colleges)	Visvesvaraya Technological University Belagavi - 590014
1.13 Special status conferred by Central/ State Government UGC/CSIR/DST/DBT/ICMR etc Autonomy by State/Central Govt. / University	VTU & UGC
University with Potential for Excellence	UGC-CPE
DST Star Scheme	UGC-CE
UGC-Special Assistance Programme	DST-FIST
Revised Guidelines of IQAC and submission of AQAR	Page 3

UGC-Innovative PG programmes Any other (Specify)
UGC-COP Programmes
2. IQAC Composition and Activities
2.1 No. of Teachers
2.2 No. of Administrative/Technical staff
2.3 No. of students
2.4 No. of Management representatives 1
2.5 No. of Alumni 2
2.6 No. of any other stakeholder and community representatives
2.7 No. of Employers/ Industrialists 2
2.8 No. of other External Experts 1 2.9 Total No. of members 19
2.10 No. of IQAC meetings held 2 2.11 No. of meetings with various stakeholders: No. 2 Faculty 2
2.11 No. of meetings with various stakeholders: No. 2 Faculty 2
Non-Teaching Staff Students 0 Alumni 0 Others 0
(Details in Annexure 1)
2.12 Has IQAC received any funding from UGC during the year? Yes No
If yes, mention the amount
2.13 Seminars and Conferences (only quality related)
(i) No. of Seminars/Conferences/ Workshops/Symposia organized by the IQAC
Total Nos. 108 International 2 National 2 State 4 Institution Level 100
Themes:

- a. Civil Department: Road Safety; Solid waste Management; Design, Construction, Maintenance & management of Urban roads; Structural Analysis, Construction and Maintenance of Flexible Pavements; and Concrete fair.
- b. Electrical Department: LCA Avionics & Weapon System Design & Development; OFC Systems Engineering Aspects for the Optimal Fiber Networks; Electronics System design;
- c. Instrumentation Department: Nanotechnology Industry and future perspectives; Fundamentals of Automation; Application development using Cloud computing; Investiture ceremony for newly elected office bearers.
- d. Computer Science and Engineering: Green Computing; How to prepare for interview; Bluemix Watson API; Algorithmic Thinking & Algorithmic Design and State of Art Security issues.
- e. Information Science and Engineering Department: Network Simulation using NS-3; Android Application Development; Pedagogy Training; Project Management; IOT for Healthcare; Advanced computing; Data Analytics & Visualization
- f. Aerospace Department: Indian Space program
- g. Bio-Technology: Go-Green, Environmental Awareness and Research, Composting and management of municipal solid waste, Recycling techniques for agri waste, e-waste, hospital waste etc.
- h. Chemical Engineering: Applications of Numerical Techniques in Materials Research, Fluid dynamics, Vacuum Technology for green industry etc.
- i. Electronics and Communication Engineering: Electronic Circuits with PCB design, Signal Processing on DSP and Application Development, Industrial Automation, Analog RFIC Design, Silvaco TCAD device simulation, embedded processors & applications Wireless sensor network, etc.
- j. Mechanical Engineering: Off-Shore Technologies, Polymers as future space materials, Naval-Underwater Electronics, NDT technologies, Mechanical Design, Induction Hardening, Hydraulics and Pneumatics ect.
- k. Telecommunication Engineering: signal processing and communications, Modeling of large area & flexible Microelectronic systems, Virtual Instrumentation for bio-medical signal processing and systems, Advanced trends in Image processing & its applications etc.

2.14 Significant Activities and contributions made by IQAC

- Use of ICT in Teaching Learning Process: Institution has enforced use of NPTEL in all the courses. It has 725 subjects, 25000+ Video lectures.
- Faculties are using Wikispace, MOOCS, MOODLE e-books and e-journals. This has made them use modern teaching process such as blended learning and flopped class room teaching.
- Quiklrn Rollout: Quiklrn is an innovative technology platform that encourages learners to create an interactive learning environment and enables them to contextually build their learning paths. The platform with it's superior learning experience is expected to provide better learning outcomes. As part of Quiklrn's Experiential Learning offering, Quiklrn assists students to hone their business skills and acumen, preparing them to face the challenges of real life business situations and create differentiation for themselves.

- Modules of Professional Practice: Undergraduate students from III semester to VI semester are provided with professional practice from recognized organizations. The contents of the modules are as follows:
 - ➤ III Semesters: Communication Skills, Communication with Confidence & Clarity, Verbal Analogies, Positive Attitude, Self-Analysis & Self-Management and Group Discussion.
 - ➤ IV Semester: Communication Skills, Stress Management, Group Discussion & Presentation Skills, Motivation and Assertive Communication
 - ➤ V Semester: Body Language & Proxemics, Interview Skills, Resume Writing and Aptitude Test Preparation.
 - ➤ VI Semester: Individual Counseling & Guidance, Career Orientation, Work Ethics, Interpersonal relations, Adapting to the Corporate Culture, Balancing Personal & Professional Life and Roles & Responsibilities

Other activities are:

Sl. No.	Department/Programme	Number
1	Workshops / Seminars / Conferences organized	108
2	Invited talks delivered by faculty	96
3	Expert Lectures organized by the dept.	44
4	Workshop / Seminar / Conference attended by Faculty/ Staff	402
5	Journal Publications by Faculty	199
6	Conference Publications by Faculty	107
7	Books / chapters published /authored by faculty	04
8	Memoranda of Understanding	15
9	Industrial visits by students	75

2.15 Plan of Action by IQAC/Outcome

- i. To enhance the number of PhDs. Awareness programs in the institution has motivated faculties to register for PhD. 112 have registered and are pursuing PhD.
- ii. Pedagogy training: Three in house pedagogy training program was conducted for faculties. 70 faculties have undergone the training and have adopted the new teaching learning process.
- Promoting the paper publication in reputed journals. Faculties are encouraged to publish papers in reputed journals. The number of publication made and their impact factor are considered during up gradation of AGP and for promotion.
- iv. Encouraging faculties to patenting their work. Faculties have been given orientation about the procedure of patenting and its benefit. Further institution assists the faculty in filing the patents, including financial assistance. After filing the patent, if possible to productionise the patent, the institute partners. Further, from the proceeds of the patented product, from sales, a certain percentage of profit are shared with the faculty. As a result of the encouragement given, 9 patents have been filed during the year as compared to only three in the year 2914-15
- v. Setting up Centre of Excellence. College is striving hard to set up CoE in all disciplines. A CoE is set up in Macro electronics.
- vi. Up gradation of technical skills of technical staff members: To enhance Academic and Administrative Excellence in the college, the institution assesses the training needs among

different group of technical staff. Technical staff are either trained in house by calling experts for teaching or deputed for training in various technical Institutes or to attend seminars/conferences.

The plan of action chalked out by the IQAC in the beginning of the year towards quality enhancement and the outcome achieved by the end of the year 2015-16 *

Sl. No	Date	Name of Program	Resources	Teaching / NT	No. of Participa				
					nts				
	August 2015 – July 2016 (2015-2016)								
1	13 th	"Sensitizing workers about	M/s Yashmit	Non-					
	February	safety and Health measures	Human resources,	Teaching	50				
	2016	to be adopted workplace"	Bengaluru						
2	$7^{th} - 9^{th}$	"Personality Development	M/s Unique	Non-					
	June 2016	and Team Building"	Consultant	Teaching	46				
			Bengaluru						
3	11 th June	E - waste Management	M/s Buoyancee,	Non-	26				
	2016	Program	Bengaluru	Teaching					
4	25 th June	E - waste Management	M/s Buoyancee,	Teaching	29				
	2016	Program	Bengaluru						
5	28 th June	"Sensitizing workers about	M/s Yashmit	Non-					
	2016	safety and Health measures	Human Resources,	Teaching	50				
		to be adopted workplace"	Bengaluru						

Management ✓ Syndicate Any other body

Provide the details of the action taken

2.15 Whether the AQAR was placed in statutory body

The AQAR data was placed in front of the Management during the IQAC meeting held on 21-8-2015.

The meeting proceeded as follows:

Principal Briefed about the Functions and Responsibilities of IQAC, Processes adopted to enhance quality education. Discussion resulted in feedback from the members. Some of the feedbacks were-

- i. All existing committees to be made under one umbrella.
- ii. Quality parameters framed by the NBA and NAAC committees
- iii. Quality in publications of papers.
- iv. IQAC meeting being convened quarterly.

Part – B

Criterion – I

1. Curricular Aspects

1.1 Details about Academic Programmes

Level of the Programme	Number of existing Programmes	Number of programmes added during the year	Number of self-financing programmes	Number of value added / Career Oriented programmes
PhD	15	0	15	-
PG	21	0	21	-
UG	12	0	12	-
PG Diploma	0	0	-	-
Advanced	0	0	-	-
Diploma				
Diploma	0	0	-	-
Certificate	0	0		
Others	0	0		
Total	48	0		
·				·
Interdisciplinary	0	0		

inter and orp inter y	· ·	ŭ	
Innovative	0	0	

- 1.2 (i) Flexibility of the Curriculum: CBCS/Core/Elective option / Open options
 - (ii) Pattern of programmes:

Pattern	Number of programmes
Semester	33
Trimester	_
Annual	_

1.3	Feedback from stakeholders*	Alumni	~	Parents	Employers Students	•	
	(On all aspects)						
	Mode of feedback:	Online	~	Manual 🗸	Co-operating schools		
*Please provide an analysis of the feedback in the Annexure							

1.4 Whether there is any revision/update of regulation or syllabi, if yes, mention their salient aspects.

Yes, there has been some revision in the syllabus. Some of the salient features of the changes are-

- 1. The Self Study be refereed as Experiential Learning from 2016 scheme and syllabus. For experiential learning 16 credits are assigned. These credits are covered from 3rd semester to 6th semester.
- 2. The number of courses in each semester should not exceed 6 (excluding HSS and Bridge courses).
- 3. The 8th semester should consists of Project work for 16 credits, Technical seminar for 2 credits and Innovation and Social skills (HSS) for 2 credits.
- 4. The mathematics-III and Mathematics IV should be cluster wise.
- 5. Material science /Biology should be included in 3rd semester for 2 credits and Environmental Science in 4th Semester for 2 credits.
- 6. For lateral entry diploma students, the Bridge course in mathematics has to be included in 3rd semester and Bridge curse on C programming to be included in 4th Semester.
- 7. HSS titles like IPR, Legal Studies and MoB has been introduced.
- 8. There should be 3 open electives in 2016 scheme out of which, one open elective in fifth semester and one open elective in sixth semester and one elective in seventh semester. The number of credits for open electives is 4 + 3 + 3 = 10 credits.

1.5	Any new Department/Centre introduced during the year. If yes, give detail	ils.
	No	

Criterion - II

2. Teaching, Learning and Evaluation

2.1 Total No. of permanent faculty

Total	Asst.	Associate	Professors	Others
	Professors	Professors		
386	257	67	52	10

2.2 No. of permanent faculty with Ph.D

No. Of faculty with PhD	
152	

2.3 No. of Faculty Positions Recruited (R) and Vacant (V) during the year – 2015-16

Asst.		Associate		Professors		Professors		Professors		Professors Other		ofessors Others		Total	
Profe	ssors	Profes	sors												
R	V	R	V	R	V	R	V	R	V						
35	2	0	6	2	0	-	-	35	8						

2.4 No. of Guest and Visiting faculty and Temporary faculty

3	5	2
---	---	---

2.5 Faculty participation in conferences and symposia

No. of Faculty	International level	National level	State level
Attended	105	13	73
Presented papers	119	42	4
Resource Persons	6	5	27

2.6 Innovative processes adopted by the institution in Teaching and Learning

The college has introduced a huge focus on fundamentals, interdisciplinary nature of engineering education and experiential learning to ensure that the students practice what they learn and also can leverage the same for R&D and innovation.

- Self-learning beyond syllabus is ensured through experiential learning.
- Core courses predominantly have theory and laboratory combined. The students acquire the
 desired knowledge in their field as per the curriculum through the classroom teaching process.
 Provision is also made for the students to carryout relevant experiments in the courses offered
 by the departments/university.
- Tutorial classes are provided for analytical courses in every semester as per the scheme. These are included in the academic planning and scheduled in the weekly time table announced by the department. Tutorials are conducted in smaller batches to provide opportunities for the students to clarify the concept and raise the doubts and queries in the subjects. The regular teaching hours allocated in the time table as per the curriculum, are

- insufficient to effectively solve all types of design and analytical problems. Additional tutorial classes help the students to understand the design concepts and analysis procedures in a better manner.
- The self-study component emphasizes on case study, design and emerging technologies pertaining to the course and beyond syllabus. Further the students are encouraged to carry out the self learning component of multiple subjects together, to make them understand the cross functional correlation between the various courses.
- Experiential learning component has been included in UG programmes. In case of PG programmes, experiential learning, seminars and assignments on related topics in advanced areas are prescribed.
- Over 40 inter disciplinary electives, over 30 industry based labs and also institutional interdisciplinary centers have been established to enable the student to practice what they learn and to truly understand the subjects or even try out new ideas.
- The curriculum offers course components like seminars, mini projects and major project taken as per their supervisor.
- Digital Medium of instruction (PPTs, Videos, and Simulation etc) is used in classrooms, seminars and laboratories.
- Encouraging the students to use open course contents like NPTEL, COURSERA, MOOC's, MIT OCW and other such materials. EDUSAT CDs and IUCEE webinar programs help students to engage in e-learning activities.
- The Institution is one of the 100 colleges chosen for Quality Enhancement in Engineering Education (QEEE). Courses offered under QEEE are a part of the regular time table in selected courses as well as language training.
- Central and department Libraries have many packages for facilitating self learning.
- Students are motivated to fabricate working models, charts and also to attend subject seminars of interest in other institutions.
- Regular industrial visits are organized in the department wherein the students are taken to various industries relevant to the course.
- To get a feel of Industry environment, students of both UG and PG are facilitated to undertake internships and work on live problems of the industries and research organizations.
- Expert lectures are organized by the respective faculty to bridge the gap between the curriculum and industry requirements.
- Proficiency courses are offered in niche areas of Engineering /Technology during the semester breaks by the departments.
- Hands on training in advanced technologies in both hardware and software platforms to provide experiential learning opportunities.
- 2.7 Total No. of actual teaching days during this academic year 180 days

- 2.8 Examination/ Evaluation Reforms initiated by the Institution (for example: Open Book Examination, Bar Coding, Double Valuation, Photocopy, and Online Multiple Choice Questions)
- ❖ Hand book consisting of rules and regulations, details of examination process is given to all the students during first year. During the first week of the admission orientation programs are been conducted to make the students aware of the examination process. Time to time the office of Controller of Examinations will send circulars related to dates and timetable for examinations and other activities related to examination process.

Reforms to improve Quality and standard of the process and the students:

- The eligibility for transitional grade 'X' is increased from 60% to 75%
- ➤ Passing standard for courses having both theory and laboratory component is improved by keeping minimum passing marks for theory and laboratory separately.
- ➤ The above two changes has reduced the misuse of the provision and has also improved the academic standard of the students.
- ➤ Strengthening the redressal process by allowing the external examiner for revaluation and challenge valuation has further improved the credibility of the system/process
- ➤ Barcoding of answer scripts Reduction in error rate
- ➤ The college adheres to the declared examination schedules

Continuous evaluation of students and ensuring their progress and improved performance.

- ➤ Percent weightage of CIE to Semester End Examination (SEE) is 50:50
- There is no choice in the test and quiz question paper.
- ➤ Test and quiz are conducted with the same rigor as SEE (question paper scrutiny, proper seating arrangement for students, invigilation process, squad monitoring conduction of quiz and test).
- ➤ The components of Continuous Internal Evaluation (CIE) are test, quiz, assignment (project/paper presentation/field work) and self study, which will be conducted at regular intervals.
- ➤ CIE break-up

	Test	Quiz	Assignment/Seminar
Courses without self study component	60%	30%	10%
Courses with self study components	50%	30%	20%

- > Remedial classes are conducted for weak students
- Regular counseling through faculty counselor/HoD and others

Automation of Examination and valuation process:

- > Partial automation of examination division/section
- > Process of sending the request for Question paper
- > Coding of question paper received from examiners
- > Barcoding of answer scripts
- ➤ Partial implementation of digital evaluation (automation of assigning the answer booklets to examiners and allowing the examiners to enter the marks to the computers.)

- ➤ Automating process of evaluating the component of Course Outcomes from the marks obtained in SEE
- > Software for generation of grades and grade point average, grade cards and PDC
- > Reduction in processing time for different activities

Mechanism for redressal of grievances with reference to evaluation:

- ➤ Photo copy of answer scripts
- > Revaluation (for regular SEE)
- ➤ Challenge Valuation (for makeup and fast track examinations)
- 2.9 No. of faculty members involved in curriculum restructuring/revision/syllabus development as member of Board of Study/Faculty/Curriculum Development workshop

2.10 Average percentage of attendance of students

85.4%

2.11 Course/Programme wise distribution of pass percentage

	Result Analysis: 2012-2016 Batch of Under Graduate Students									
Sl. No.	Programme Name	Total No. Students Admitted	Total No. of Students Passed	% Pass	FCD	First Class	Second Class			
1	Biotechnology	55	42	76.36	35	7	0			
2	Chemical Engineering	49	38	77.55	30	8	0			
3	Computer Science and Engineering	161	150	93.17	136	13	1			
4	Civil Engineering	79	60	75.95	50	10	0			
5	Electronics and Communication Engineering	221	202	91.4	169	33	0			
6	Electrical and Electronics Engineering	76	58	76.32	43	15	0			
7	Industrial Engineering and Management	67	55	82.09	40	15	0			
8	Information Science and Engineering	76	67	88.16	58	9	0			
9	Instrumentation Technology	74	66	89.19	54	11	1			
10	Mechanical Engineering	157	136	86.62	123	13	0			
11	Telecommunication Engineering	75	61	81.33	40	20	1			
	Total	1090	935	85.78	778	154	3			

Result Analysis (UG) for the last five years

Batch	Total	Total	Passed %	FCD	FC	SC
	Admitted	Passed				
2008-2012	894	789	88.26	694	91	4
2009-2013	866	765	88.34	640	120	5
2010-2014	943	840	89.08	725	104	10
2011-2015	986	884	89.66	759	118	7
2012-2016	1090	935	85.78	778	154	3

	Result Analysis: 2013-2015 Batch of Post Graduate Students								
Sl. No.	Programme Name	Total No. Students Admitted	Total No. of Students Passed	% Pass	FCD	First Class	Second Class		
1	Structural Engineering	18	12	66.67	12	0	0		
2	Highway Technology	18	18	100	14	4	0		
3	Computer Integrated Manufacturing	18	16	88.89	14	2	0		
4	Machine Design	18	13	72.22	9	4	0		
5	Product Design & Manufacturing	36	26	72.22	24	2	0		
6	Tool Engineering	17	14	82.35	13	1	0		
7	Power Electronics	18	16	88.89	16	0	0		
8	Communication Systems	18	12	66.67	5	7	0		
9	VLSI Design & Embedded Systems	36	27	75.00	18	9	0		
10	Master of Engineering Management	15	12	80.00	11	1	0		
11	Bio-medical Signal Processing	16	15	93.75	15	0	0		
12	Chemical Engineering	17	12	70.59	11	1	0		
13	Computer Network Engineering	18	11	61.11	9	2	0		
14	Computer Science & Engineering	18	12	66.67	11	1	0		
15	Digital Communication	36	30	83.33	14	14	2		
16	RF & Microwave Engineering	18	18	100	15	3	0		
17	Information Technology	18	15	83.33	14	1	0		
18	Software Engineering	18	17	94.44	16	1	0		
19	Biotechnology	17	16	94.12	16	0	0		
20	Bioinformatics	18	12	66.67	12	0	0		
	Total	406	324	79.80	269	53	2		

Result Analysis (PG) for the last five years

Batch	Total	Total Passed	Passed %	FCD	FC	SC
	Admitted					
2008-2010	60	55	91.67	55	0	0
2009-2011	60	52	86.67	52	0	0
2010-2012	118	109	92.37	109	0	0
2011-2013	119	104	87.39	102	2	0
2012-2014	120	104	86.67	63	39	2

Result Analysis for the last five years (Master of Computer Applications)

Batch	No. of Students Admitted	No. of Students Appeared	No. of Students Graduated	Percentage
2010	120	117	117	97.50
2011	120	115	115	95.83
2012	120	110	110	91.67
2013	120	106	106	88.33
2014	107	111	111	103.74

- 2.12 How does IQAC Contribute/Monitor/Evaluate the Teaching & Learning processes IQAC effectively monitors the teaching learning process
 - 1. Monitor of conduct of internal assessment: There is college level academic monitoring committee. There is a process in place to monitor the conduction of internal assessment. The college provides the calendar of events in which the schedule of Quiz and Test are published in the beginning of every academic year. The results obtained during the internal assessment is monitored by the department committee.
 - 2. Monitors academic activities of various departmental committees: There are few academic committees in each department. They are Board of Studies (BoS), Board of Examiners (BoE), Academic and monitoring committee. Board of Studies looks after the academic requirements. There are external members as per the statutory requirement. BoE looks after the examination question paper standards and the faculty evaluating it. The academic monitoring committee has a greater responsibility to look after day to day activities as per the academic needs.
 - 3. Educate the faculty on Bloom's taxonomy and programme outcomes: There are various levels in which Bloom's Taxonomy and programme outcomes are being peculated to faculty members. The fresh assistant professors are provided with pedagogy training programing during which the basis and the process to be followed in mentioned. The Academic monitoring and BoE monitors into the Bloom's adaptation in the question paper. The BoS monitors monitor both CIE and SEE for Bloom's taxonomy and programme outcomes.

2.13 Initiatives undertaken towards faculty development

Faculty / Staff Development Programmes	Number of faculty benefitted
Refresher courses	98
UGC – Faculty Improvement Programme	7

HRD programmes	110
Orientation programmes	25
Staff training conducted by the university	15
Staff training conducted by other institutions	65
Summer / Winter schools, Workshops, etc.	180
Others	10

2.14 Details of Administrative and Technical staff

Category	Number of Permanent Employees	Number of Vacant Positions	Number of permanent positions filled during the Year	Number of positions filled temporarily
Administrative Staff	59	0	0	0
Technical Staff	193	0	16	0

Criterion - III

3. Research, Consultancy and Extension

- 3.1 Initiatives of the IQAC in Sensitizing/Promoting Research Climate in the institution
- > Guest lectures arranged to enthuse faculty and students in research and development
- > Faculty were encouraged to submit research proposals from funding agencies, guiding Ph.D students
- Faculty are provided with supporting measures for patent filing
- ➤ Reimbursement of fees paid for pursuing PhD
- > Recognition for interaction with outside world, publication in refereed journals
- > Deputation of faculty to attend Workshop/seminars/conference/training
- > Support measures for Patent filing
- ➤ Collaboration with state and national agencies for research activities
- > Students are encouraged to do interdisciplinary projects, embossed self study, form innovative teams

3.2 Details regarding major projects

	Completed	Ongoing	Sanctioned	Submitted
Number	18	17	1	21
Outlay in Rs. Lakhs	764.678	371.1		879.398

3.3 Details regarding minor projects

	Completed	Ongoing	Sanctioned	Submitted
Number	3	15	2	1
Outlay in Rs. Lakhs	4.565	17.5	7	5

3.4 Details on research publications

	International	National	Others
Peer Review Journals	122	5	
Non-Peer Review Journals	26	0	
e-Journals	54	1	
Conference proceedings	125	28	

3.5 Details on Impact factor of publications

Range 1.47-8.14 Average 35 h-index 621.38 Nos. in SCOPUS 95

3.6 Research funds sanctioned and received from various funding agencies, industry and other organizations in Lakhs

List of Major Projects during the academic year 2015-16

Sl No	Title of the project	Investigators	Funding Agency	Total Grant Sanctioned
1.	Investigation of Buckling Performance of Stiffened Polymer	Dr. H.N. Narasimhamurthy (PI) -	NRB	3132000

	Composite Shells for Underwater Vehicle Applications	Dr. M. Krishna - CoPI (ME)		
2.	Proteo-Genomic studies on silk glands of the mulberry silkworm <i>Bombyx mori</i>	Dr. Pushpa Agrawal - PI (BT) Prof. Vidya Niranjan (BT)	DBT	2340000
3.	Design & Development of a Twin Screw Oil Expeller for Synthesis of Bio-Fuels	Dr. Ravindra S. Kulkarni (ME)	AICTE (RPS)	1529412
4.	Investigation of Dyanmic Characteristics of Multilayered Sandwich Panels	Sourabha Havldar (ME)	AICTE (RPS)	1529412
5.	Nanoparticle based immobilization of Bovine Carbonic Anhydrase (BCA) on Poly Urethene Foam for Environmental CO ₂ Sequestration	Dr. Sumatha Manokaran - BT	Karnataka- VGST	400000
6.	Design & Development of Hospital Power Automation System using dynamic Gesture Recognition	Mr. Manjunath A.E (CSE)	Karnataka- VGST	400000
7.	Characterization of Electric Double Layer Super Capacitor with CNT Conducting Polymers / Metal Oxide Composites and Nano Dielectrics	Dr. Rudranna Nandihalli (EE) - PI	CPRI (RSOP)	1600000
8.	Real Time Traffic Signal Control Based on Adaptive Neuro-Fuzzy logic for Surveillance Videos (CISEE)	Dr. Rajashree Shettar (CS) - PI	KSTEPS- DST Karnataka	3000000
9.	Design, Development and Implementation of an adaptable ground vehicle classification system for battlefield surveillance	Dr. M. Uttarakumari (EC) - PI,. Dr. K.S. Geetha (EC), Prof. Sujatha Badiger (EC), Prof. Rohini Hallikar (EC) -Co-Pis	ARB- DRDO	1295700
10	Spatial distribution of Uranium and associated water quality parameters in Bangalore, Bangalore Rural, Ramanagara, Chikkaballapura and Kolar district in Karnataka	Dr. Rajalakshmi M (CH) - PI	DAE - BRNS	2697300

List of consultancy projects during 2015-16

Sl No	Title of the consultancy project	Industry sponsoring	Amount recieved
1.	Electronic Jacquard for korai met loom weaving		1.00
2.	Windows CE 6.0 Application Development with multitasking for coagulation Analyzer	Micro Lab Instruments	3.00
3.	Application Development on Windows 7 to 10 platforms using .Net and C# tools for ELISA reader		2.75

4.	Secure Data Services in cloud	Nihon Communication Solutions Pvt., Limited	0.80
5.	Prototyping the IEEE 802.15.4 MAC Protocol for modeling and analysis of WBAN	Nihon Communication Solutions Pvt., Limited	0.60
6.	Soil Investigation for proposed sports club at Tumkur.	Excel Sports Academy	0.44
7.	Material testing for preparation of DPR for Vengalam to Edapally of NH17	Feedback Infra Pvt. Ltd	2.22
8.	Testing of filter media of 4.54 MLD water treatment plant at Shahpur town.	Benaka Services, Tumkur	0.086
9.	Material testing for NH 150A	Feedback Infra Pvt. Ltd	1.10
10.	Soil Investigation at New Thippasandra	ADE, New Thippasandra, Bengaluru	0.18
11.	Non Destructive Testing at Yelahanka	Geo logics	0.15
12.	Hoist wire rope test	R. Hari Prasath, Banashankari II Stage, Bengaluru	0.05
13.	Material testing for Feasibility study of four laning of the section from Gundugola to Kovvuru SH 107	Feedback Infra Pvt.Ltd , Bengaluru	0.60
	Road Safety Engineering	PWD, Govt. of Karnataka	2.24
15.	Design and Development of Automatic traverse winder with vision system and interleave paper for a stamping press"		20.00
16.	Energy harvesting using Triboelectric Nano generator	TE Connectivity	10.00
	Energy Regeneration using Micro Hydro turbine generation		8.00
	Large power generation (energy recovery) using Bruderer machine		8.50
19.	Intelligent Agent- Customer matching for contact centers Containerizing a web application and its performance analysis Log Analysis for bug detection	CISCO Systems PVT. India	7.92
20. 21.	Log Analysis for bug detection Containerizing a web application and its	Ltd	
22.	performance analysis RS 485 /Modbus Driver Wrapper and Simple Analysis Widgets	ABB	3.00
23.	RTF Writer	Gnostice Information Technologies Pvt. Ltd.	1.00
24.	IoT Enabled Smart Water Management System	Govt of Andhra Pradesh	2.61
25.	Inventory Management System	Karnataka Forest Department Corporation Limited	1.00
	Xtreme Digitization Engine Phase 1 with Mixed Language capability in C#.NET	Gnostice InformationTechnologies Pvt.,Limited	1.00
27.	Design and Development of IoT based pavement health monitoring systems	Srushti Consultants,	9.36
28.	Lawful VoIP and targeted surveillance using Deep Packet Inspection for Wire Speed Network	Nihon Communication Solutions Pvt., Limited.	1.10

29.	Material testing, Technical Advisory services and Training	Professional Civil Infra Pvt. Ltd, Bengaluru.Feedback Infra Private Limited, Bengaluru.Public Affairs Centre, Bengaluru (Memorandam of Understanding).Training programs for PWP&IWT Engineers(Govt of Karnataka)	34.0
30.	Design, testing and trouble shooting of RF subsystem	TCS, Bengaluru	8.0
31.	Transmission line and Antennas	BSF	0.50
32.	Create proof of concept for mouldable biodegradable material for disposable dinnerware from biomass feed stocks	IMBA, IE Business School, Madrid, Spain	0.28
33.	Genomic analysis and systems Biology	GenEclat Technolgies	06.50
34.	Application of nano ceramic membrane for separation and water purification techniques	BHEL / SVE/ Mechtrix Engineers	02.0
35.	Development of Software's and Tools for Cloud based Framework for securing .NET based software applications	ABHI Systems, Bangalore.	0.50
36.	Computing of Bio Informatics Data	Grid Octane	0.25
37.	Deep packet inspection algorithm for wire speed network using MONOSEK Network Analyser	Nihon Communication Solutions Pvt., Limited	1.00
38.	Graphics Application using C#.net for Industrial Requirement	GC'S Technologies	1.00
39.	Efficient low cost ECG monitoring system	ESSEN Systems	0.5
40.	Modification of sprocket and belt testing rig	CLASS India Pvt.ltd,Chandigarh	7.0
41.	Hygrothermal Studies on FRP-Nanocomposites	NMRL, Ambernath	10.0
42.	Structural Analysis and Experimental Validation of Underwater Electronics Enclosure for Dunking System	NPOL, Cochin	10.0
43.	Certificate Generator tool using Fuzzying		6.71
44.	Traffic Generator using Intel Data Plane Development Kit	Citrix R&D India Pvt. Ltd.	2.00
45.	Development of Generic Log Analyzer.		1.00
	Capture and Relay Tool		2.00
47.	GPU Research Centre Bio-Inspired Computing for the analysis of pectin in citrus fruit	NVIDIA, Private Limited. National Mission On Food Processing (NMFP), Directorate of Agriculture, Bangalore	3.00 4.00
49.	A study of Moving object detection	Naval Research Board	14.61
50.	In under water video sequence Infrastructure as Service platform: Automated VM Provisioning and Service Assurance	CISCO Systems, Pvt. India Ltd.	7.92

3.7 No. of	books	published	i) With IS	BN No.	1	Chapters in	Edited Books 8	
			ii) Withou	t ISBN N	lo.			
3 8 No. of	Unive	rsity Depart	ments rece	eiving fur	nds from			
2.01(0.01		• •	C-SAP		CAS	DST-F	TIST 1	
			DPE		D	BT Scheme/fu	nds 2	
3.9 For colleges Autonomy CPE DBT Star Scheme								
		INSPI	RE _	C	Е	Any Oth	er (specify)	
3.10 Reve	nue ge	nerated thro	ugh consu	ltancy	211.46	Lakhs		
Leve	l	Internati	onal N	ational	State	University	College	
Number		3	3					
Sponsorin	σ	TEQIP 2,	Т	EQIP2				
agencies	5	IEEE, CSI		LQII 2				
ageneres		Oracle	,					
3.11 No. o	of confe	erences orga	nized by the	he Institu	tion 10	08		
3.12 No. o	of facul	ty served as	experts, c	hairperso	ns or resou	irce persons	52	
3.13 No. o	of colla	borations:	Inte	ernationa	1 4 1	National 12	Any other $\boxed{2}$	
3.14 No. o	of linka	ges created	during this	s year	18			
3.15 Total	budge	t for researc	h for curre	ent year ii	n lakhs:			
From fund	ding ag	gency 25.82	Lakhs	From N	Managemer	nt of University	/College 39.575 Lakh	ıs
Total 6	5.395 L	Lakhs						
3.16 No.	of pate	nts received	this year					
	Туре	e of Patent		N	umber			
	Natio	nal	Applied		9			
	1 (4110		Granted		-			
	Intern	ational	Applied					
			Granted		-			
	Comr	mercialised	Applied Granted					

3.17 No. of research awards/ recognitions received by faculty and research fellows of the institute in the year

Total	International	National	State	University	Dist	College
26	2	2	2	3		17

3.18 No. of faculty from the Institution who are Ph. D. Guides 54 and students registered under them 114
3.19 No. of Ph.D. awarded by faculty from the Institution 10
3.20 No. of Research scholars receiving the Fellowships (Newly enrolled + existing ones JRF SRF Project Fellows 0 Any other
3.21 No. of students Participated in NSS events:
University level 20 State level 4
National level 360 International level 20
3.22 No. of students participated in NCC events:
University level 7 State level 11
National lavel International lavel
1 International level 2
3.23 No. of Awards won in NSS:
University level State level
National level 1 International level
3.24 No. of Awards won in NCC:
University level 1 State level 3
National level 3 International level
3.25 No. of Extension activities organized
University forum College forum
NCC 4 NSS Any other 13

- 3.26 Major Activities during the year in the sphere of extension activities and Institutional Social Responsibility
 - > NCC-RVCE took up the initiative to organize talks by eminent personalities for the benefit of students of the college. One such life changing talk was by Lt. Gen. P G Kamath which was

- conducted on 30th September 2015. NCC-RVCE displayed the diligence of its impeccable piloting to the chief guest. In his talk, he inspired the crowd to improve upon their leadership qualities.
- ➤ NSS RVCE organised an event to celebrate Gandhi Jayanthi on 2ndOctober, 2015 with the theme "My life is My Message".
- ➤ On account of the birthday celebrations of the great philosopher "Swami Vivekananda" and initiating "National Youth week", "Silent Walkathon" was held on 12th January 2016. The principal delivered a speech, giving insight into the life of Swamiji.
- ➤ NSS-RVCE in association with YFS (Youth for Seva) on 19th of January 2016.
- ➤ 14 NSS volunteers visited Government school of Vibhutipura, Bengaluru and took 56 students of 3rd, 4th, 5th standard to an 'Educational Trip' arranged by YFS.
- Talk on role of Youth in Community Service & Social Entrepreneurship- by Mr. Venkatesh Murthy, a NIT-K (Surathkal) graduate, founder of YOUTH FOR SEVA (YFS). Seva in Action helping the Specially abled Kids and other inmates, as a part of "Shramadaan", the NSS volunteers made paper bags as an activity with those amazing people
- ➤ On 21st of January 2016, there was a 'medical camp' arranged by YFS for the Balya orphanage children in Ullal Upanagar, Bengaluru. There were 110 Students (LKG to 8th std), the members of NSS-RVCE, assisted the doctors.
- ➤ The cadets of NCC RVCE, organized an SSB capsule on 18th March 2016. The aim of this program was to enlighten the students who wish to join the Armed Forces and clear their doubts and confusion about the process.
- ➤ NCC cadets actively participated in the Platinum Jubilee celebrations held at NMKRV, Jayanagar. Grand welcome was given to all the dignitary. Piloting the chief guests on the occasion was the highlight of the occasion. Apart from being part of the Platinum Jubilee celebration of RSST on 26th January, NCC RVCE also had the responsibility of flag hoisting in college. It was done in a very systematic and dignified way along with the NSS.
- ➤ NCC-RVCE collaborated with the other clubs of the college such as NSS, RAAG and Rotaract to conduct a massive blood donation camp in the college on 30th March 2016
- ➤ International Day against Drug Abuse and Illicit Trafficking: The cadets of NCC RVCE organized an awareness program at RV girls' high school on International Day against Drug Abuse and Illicit Trafficking i.e. 25th June 2016.
- NSS-RVCE in association with "RV Center for Gandhian Principles and Value Based Education" organized an essay competition on 24th August 2016 with the theme, "RELEVANCE OF GANDHIJI IN COMTEMPORARY WORLD".
- ➤ Green Initiative Pledge campaign was organized by NSS RVCE, to spread message among the youth about character and nation building. A green initiative pledge was taken by the volunteers which mainly focused on usage of eco-friendly cutlery, proper waste disposal and reducing usage of banned plastic items. Also, the volunteers pledged to work towards a

cashless campus and respect every citizen and to treat them equally. The volunteers took an oath to strive towards maintaining good health and practicing Yoga and also create a healthy environment.

- ➤ On the occasion of national youth week, the Government of Karnataka had hosted a chain of events at the Palace Grounds. NSS Volunteers visited the event and participated in the National Youth Week celebrations.
- ➤ NSS DAY Celebrations with "Road safety awareness" talk on 24th SEPTEMBER 2016. Volunteer's created road safety posters which were used for spreading awareness.
- ➤ Paper bag event was organized to spread the awareness on environment. In order to raise awareness about the ill- effects of plastic to the environment, the NSS volunteers decided to organize a paper- bag making event. Around 500 paper bags were made by the students of RVCE during the course of the event. Also, everyone pledged to reduce the use of plastic bags and as an alternative use paper bags which are biodegradable.

Criterion - IV

4. Infrastructure and Learning Resources

4.1 Details of increase in infrastructure facilities:

Facilities	Existing	Newly	Source of	Total
		created	Fund	
Campus area	51.4acres	Nil		51.4
Class rooms	154			154
Laboratories	124		Institution	124
Seminar Halls	14+1		al Budget	14+1
No. of important equipment purchased (≥	238	8	/ Trust	246
1-0 lakh) during the current year.			Budget	
Value of the equipment purchased during	2046.44	500.21		2546.65
the year (Rs. in Lakhs)				
Others				

4.2 Computerization of administration and library

Administration: The institution has established e-Governance through the following:

- ➤ RVCE has developed software for Academics, Examination processes, Students feedback, admission and also procured software for Library, Student academic processes, Administration, Finance, HR etc. to institutionalize e-governance
- ➤ It is envisaged that this will allow use data base for most of the processes and generation of reports for compliance agency, parents, faculty assessment, library processes, administrative processes and TEQIP activities.
- This initiative will enable students to get academic and administrative information on-line.

Modules	Sub- Modules							
Academic - I	Admission - UG	Admissions - PG	Reports					
Academics II	Course Management	CIE	Examination Management	Reports				
luman Resources	Employee Service details	Payroll	R&D Budgeting and Tracking	Reports				
Finance and Accounting	Integration with Tally	TEQIP MIS and PMSS		Reports				
Operations and Administration	Capital Asset Management	Procurement	Stores and inventory	Library Management				

Institutional Management Information system

4.3 Library services:

	Ex	kisting	Newl	ly added	Т	otal o
	No.	Value	No.	Value	No.	Value
Text Books	124708	2693,623	5176	3,77,600	129884	64,69,623
Reference	44607	673406	720	1321578	45327	1994984
Books						
e-Books	20714	2,70,700	27733	2,65,286	48447	5,35,986
Journals	229	5,44,387	231	6,76,864	460	12,21,251
e-Journals	9181	29,37,341	8611	30,76,653	17792	60,13,994
Digital	-	-	-	-	-	-
Database						
CD & Video	NPTEL	Free	NPTEL	Free		
CD & video	Video	Fiee	Video	Fiee		
Others (specify)	QEEE					

4.4 Technology up gradation (overall)

	Total Computer s	Comput er Labs	Internet	Brows ing Centr es	Compute r Centres	Offic e	Depar t- ments	Othe rs
Existin g	2140	47	150Mbps	1	1	1	16	
Added	100	04	150Mbps					
Total	2240	51	300Mbps	1	1	1	16	

- 4.5 Computer, Internet access, training to teachers and students and any other programme for technology up gradation (Networking, e-Governance etc.)
- 4.6. Amount spent on maintenance in lakhs:

i) ICT 79.83

ii) Campus Infrastructure and facilities 1029.23

iii) Equipment 496.90

iv) Others 5592.21

Total: 7198.17

Criterion - V

5. Student Support and Progression

5.1 Contribution of IQAC in enhancing awareness about Student Support Services.

To enhance the awareness of student support services IQAC has taken a number of measures. Some of which are as follows:

- The Institution has been publishing a hand book of general information on Academic rules, regulations and guidelines for students which includes the information on Profile of the Institution, academics and autonomy, achievements and research Initiation, cutting edge research and Industry Institute collaboration, social responsibility and student activities, Infrastructure available both at Departmental and College level. Program duration, calendar of events, credit based Examination system, Outcome based education system and Disciplinary Measures, anti-ragging rules, dress code is also published in the hand book.
- In addition, information on library and information centre, placement and training and transportation details is provided in the hand book. Extracurricular activities going on in the college; NCC, National Service Scheme, Rotract clubs, RAAG, Departmental Associations is mentioned in the hand book.
- Before the start of the 1st semester of UG and PG, orientation program is scheduled for the 1st year students of both UG and PG students. During the orientation program, students are educated about the student support system. The first year students are educated regarding the outcome based education, research and innovation, counselling and students responsibility, placement activities, student clubs, CAT, sports going on in the college.
- The principal of the college will talk about the overview of the college; curricular, cocurricular and extracurricular activities. The heads of the respective departments will provide the 1st year students with the departmental profile. The controller of the examinations and the senior Professors will tutor the students about the examination and the evaluation system. The students are also informed about the social responsibility and environmental awareness.
- Website: http://www.rvce.edu.in/ is made easily available for the students through which the students can access the information. In addition, all the student related information is sent through circulars and also shared through meetings.

5.2 Efforts made by the institution for tracking the progression.

The IQAC is following a systematic approach to track the progress of the student at regular intervals.

- Regular monitoring of the students for their regularity and learning by class teachers, counsellors and respective HODs through counselling schedules.
- The attendance of the student is monitored before every Continuous Internal Evaluation (CIEs). Students who have scored less than 50% marks and having less than 75% of attendance have to attend remedial classes.
- Student academic report is sent after every internal Assessment examination
- During every semester, faculty feedback is evaluated to understand whether the teaching-learning process is happening in the expected way so as to achieve the excellence in Teaching-Learning process.
- Parent–teachers meeting is held every semester to inform the parents regarding the progression of the students.

- The institution has the Deans for Academics, Student affairs, PG studies to help the institution in creating student centric policies.
- Slow learners are identified and provided with remedial measures (remedial classes) and the fast learners are allowed to work in R&D and consultancy projects at departmental and college level.
- The institution grading committee analysis the result before declaring the results of the students to all the programs. The pros and cons of the results obtained is discussed. The need to further discussing with the department heads and the teachers would be considered in the meeting based on the first yield of the first year students.

5.3 (a)	Total Number	of students
---------	--------------	-------------

UG	PG	Ph. D.	Others
4673	1133	179	

(b) No. of students outside the state

1598

(c) No. of international students

0

No	%	Mer
0	0	

No	%	Women
0	0	

Last Year							T	his Yea	ar		
General	SC	ST	OBC	Physically Challenged	Total	General	SC	ST	OBC	Physically Challenged	Total
4189	398	73	942	44	5644	4359	410	72	929	36	5806

Demand ratio 1

Dropout % 0.005

- 5.4 Details of student support mechanism for coaching for competitive examinations (If any)
- (i) College conducts career guidance program for the students for better livelihood and sustainability. Coaching classes are conducted for GRE, TOEFL, UPSC, GATE etc

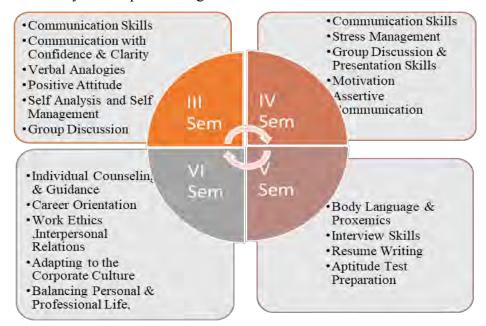
No. of students beneficiaries

- (ii) The required Books/Magazines are procured and provided for appearing for competitive examination.
- 5.5 No. of students qualified in these examinations

NET SET/SLET GATE 30 CAT 12

IAS/IPS etc 8 State PSC 5 UPSC Others 6

- 5.6 Details of student counselling and career guidance
- Placement and Career Guidance Cells has been catering the needs of students in terms of extending guidance providing job opportunities and pursuing higher education at National and International Institutions.
 - Soft Skills Training programs are conducted every semester for total improvement of students for readiness to industry requirements.
 - The Department has empaneled various training agencies to cater to the needs of Personality Development Programs for UG & PG



Modules offered during Personality Development Programs for UG

Agencies Partnered to Conduct the Training Activities

Sl.	Agency Communication Skills / Aptitude Training	
No		
1	ZEN School	Ability to deliver idea clearly, effectively and with confidence either
	for Skills	orally or in writing.
2	SHINE	Ability to find and manage relevant information from various sources
		to receive new ideas performing autonomy learning.
3	Seventh Sense	Ability to identify and analyze problems in difficult situation and make
		justifiable evaluation.
4	Ethnus	Fine -tune the students' attitudes, values, beliefs, motivation, desires,
		feelings, eagerness to learn, willingness to share and embrace new
		ideas, goal orientation, flexibility, persuasion, futuristic thinking,
		diplomacy, and various skill sets of communication, manners, and
		etiquette so that they will be able to deal with different situations
		diligently and responsibly.

•

- Entrepreneur Development Cell (EDC) aims at creating entrepreneur ecosystem, to develop and support novel and innovative ideas and to encourage future entrepreneurs.
- For every 20 students, faculty counsellor is appointed to counsel the students regarding academic and personal issues.
- Placement coordinator at departmental level to carry out career counselling on regular basis.
- Professional (Psychiatry) counselling to the students by the doctors and by faculty who has PhD in psychology

No. of students benefitted

All the students are covered under the program and have got benefitted.

5.7 Details of campus placement

	Off Campus		
Number of Organizations Visited	Number of Students Participated	Number of Students Placed	Number of Students Placed
174	BE-916 M.Tech-380 MCA-120	BE-796 M.Tech-93 MCA-74	80

5.8 Details of gender sensitization programmes:

- Campus has an anti-sexual harassment committee to address the grievances of the girl students.
- Awareness program are conducted for gender sensitization.
- Common girls' rest rooms are provided to address their needs.
- The college has a concept of zero tolerance against gender bias.
- Anti -sexual harassment cell in the campus is active and takes initiatives and measures to prevent sexual harassment.
- There are various avenues and facilities in the form of scholarships and internships exclusively for girl students.
- Few companies recruit only girl students
- The campus heath centre has lady doctor to meet the needs of lady faculty and girl students.

5.9 Students Activities

5.9.1 No. of students participated in Sports, Games and other events						
State/ University level 108/208 National level 20 International level 02						
No. of students participated in cultural events						
State/ University level 200 National level 100 International level 5						
No. of medals /awards won by students in Sports, Games and other events						
Sports: State/University level 72 National level 16 International level 01						
Cultural: State/ University level 14 National level 6 International level 00						

5.10 Scholarships and Financial Support

	Number of students	Amount
Financial support from institution	109	24,90,487
Financial support from government	1377	3,59,44,365
Financial support from other sources	<mark>7</mark>	4,69,000
Number of students who received International/ National recognitions	93	43,97,900

5.11 S	tudent organised / initiatives		
Fairs	: State/ University level 2	National level	1 International level 1
Exhibition	on: State/ University level	National level	International level
		_	
5.12 N	o. of social initiatives undertaken	by the students	404
		_	

- 5.13 Major grievances of students (if any) redressed:
 - a. Non-availability of internet facilities in the girls' hostel: This was redressed by the college by providing the same with 150mbps band width.
 - b. Poor connection of internet facility in the college campus: This was considered serious and the internet speed was increased from 150Mbps to 300Mbps.
 - c. Provision of Lunch to girl hostel students in the college Premises: Arrangement were made to provide lunch in the afternoon in the college separately for girl students.

Criterion - VI

6. Governance, Leadership and Management

6.1 State the Vision and Mission of the institution

Vision

Leadership in Quality Technical Education, Interdisciplinary Research & Innovation, with a Focus on Sustainable and Inclusive Technology

Mission

- To deliver outcome based Quality education, emphasizing on experiential learning with the state of the art infrastructure.
- To create a conducive environment for interdisciplinary research and innovation.
- To develop professionals through holistic education focusing on individual growth, discipline, integrity, ethics and social sensitivity.
- To nurture industry-institution collaboration leading to competency enhancement and entrepreneurship.
- To focus on technologies that are sustainable and inclusive, benefiting all sections of the society.

6.2 Does the Institution has a management Information System

E-governance has been implemented in all the administrative and academic activities by implementing the professional ERP system such as:

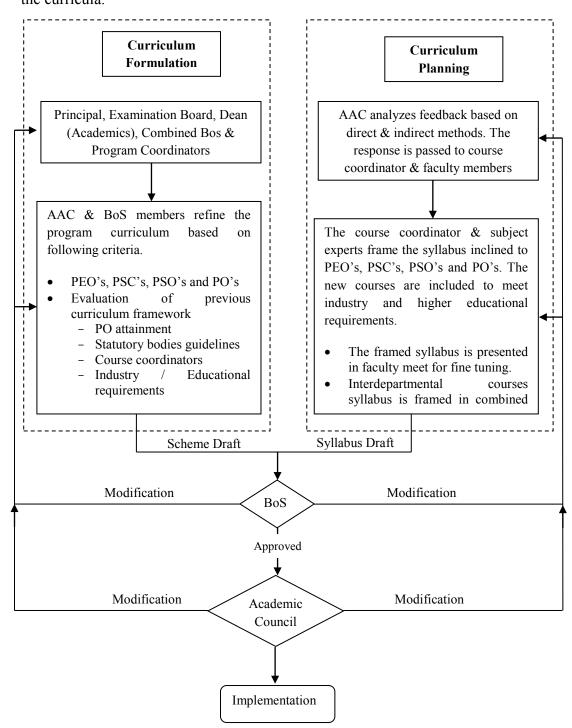
- a) Office records are digitized
- b) Online payment of fees for the students.
- c) Digitized on-line library management system.
- d) Online results announcement.
- e) Automation of examination evaluation system
- f) Bar code answer script encryption and decryption.
- g) Online elective selection system.
- h) Digital office automation.
- i) On-line registration system.
- j) Use of tally software for accounts
- k) Software Asset management
- 6.3 Quality improvement strategies adopted by the institution for each of the following:

6.3.1 Curriculum Development

Curricula are drafted by subject expert for each course in their respective department. They consider the model curriculum prescribed by AICTE. They refer to various reputed Indian and International Universities before it is finalized at department level.

- The prescribed content of syllabus will have the topics that are covered in various competitive exams like GATE, IES, UPSC/ KPSC etc.
- The entire framework is based on outcome based education focusing the graduate attributes.

- Department academic committee verifies the same after consulting with the stakeholders. The main stake holders are faculty, senior students, alumni, and industry representatives, professional and academic experts.
- Text books, reference books, e-books, MOOC are listed in each course.
- Autonomy is given to the faculties to include self-study component to enhance the most recent topics and research work.
- Faculties are encouraged to take up different teaching innovative pedagogical techniques such as flipped class room, experiential learning etc.
- Alternative assessment other than regular test such as seminar, quizzes, assignment are offered.
- The curricula are approved by the Board of Studies and finally the Academic Council approves the curricula.



6.3.2 Teaching and Learning

The following are some of the innovative practices adopted by the Institution towards teaching learning process.

- 1. Practicing Outcome Based Education (OBE) system of Education
- 2. E-Learning solution of automatic recording and distribution of classroom lectures on the flipped class model.
- 3. Blended learning with NPTEL and QEEE.
- 4. Establishment of Collaborative Laboratories with industry
- 5. Open ended experiments
- 6. Rubrics to assess lab experiments and projects.
- 7. Promoting research culture among the students from first year onwards.
- 8. Projects for Community Service.
- 9. Internships during semester breaks.
- 10. Encourage inter disciplinary and multi-disciplinary approach for projects.
- 11. Motivate and help students to do minor and major projects in domain related areas.
- 12. Encourage interdepartmental student projects
- 13. Augmentation of labs with state of art equipment.
- 14. Funding for multi-disciplinary projects
- 15. Awards for best student projects. Some projects are leading to patents
- 16. Financial support to student for presenting technical papers.

6.3.3 Examination and Evaluation

In a semester, there are three tests and three quizzes out of which best of two amongst the Three are considered for final CIE. The marks obtained by each student in quizzes, tests, assignments, lab performance, seminars and project reports are collated in every semester. The weightage is equally given to the semester end examination (SEE) and Continuous Internal Evaluation (CIE).

All the faculty members are required to maintain the work diaries. Retest for the students who have missed a test due to participation in sports, extracurricular, co-curricular activities, NCC or serious medical ailments is facilitated by the departments provided the students have taken prior permission.

6.3.4 Research and Development

Research in line with the Institutional Vision is taken up in different fields such as:

- 1. Materials & Manufacturing engineering with additional capability for Design for Optimization of Manufacturing processes and production. The broad areas of materials worked include polymers, composites, wide range of nano materials (metals, ceramics and semiconductors) and amorphous materials.
- 2. Sensors, Networks and Communication (RF & THz)
- 3. Nano Science, Surface Engineering & MEMS
- 4. Data Mining/ Data warehousing or Business Intelligence, Cloud Computing,
- 5. Environment And Sustainable Technologies with a focus on Smart buildings and Smart Cities
- 6. Clean & Renewable Energy, Energy Efficiency & Management
- 7. Large Area and Plastic / Printable (Flexible) Microelectronics
- 8. Advanced Instrumentation
- 9. Highways and Transport technology

- 6.3.5 Library, ICT and physical infrastructure / instrumentation
- 1. Library facilities Additional furniture, introduction of new and latest books on various relevant subjects and general books.
- 2. ICT Augmented the LED/LCD Projectors, provided a state of the art video conferencing facility, increased the capacity of Wi-Fi facility from 150 mbps to 300 mbps. 5 numbers of new software have been procured and provided.
- 3. Physical infrastructure:
- a. RVCE believes in providing the physical infrastructure much more than specified by AICTE to ensure that the teaching and learning process is effective.
- b. Architectural department has been moved out of the campus and the released accommodation has been utilized for department of Aerospace Engineering and Information Science and Engineering departments.
- c. Additional rooms for the faculty have also been provided in ECE department.
- d. Furniture for class rooms/labs and staff rooms worth over Rs 10 lakhs have been purchased and provided.
- e. Air conditioners have been provided to have a comfortable environment in labs and seminar halls.

6.3.6 Human Resource Management

- ➤ HRM consists of recruitment, training/professional development, performance reviews, motivations, promotions/upgradations, retention, exit interviews, retirements/resignations, compliance to labour norms etc.
- ➤ All these activities are carried out by the establishment section of the Principal's Office as per the laid down rules and regulations.
- Recruitments are done as indicated at para 6.3.7.
- ➤ All the new recruits are normally appointed on a period of probation for a period of two years. The employees based on the requirement are trained either in house or sent to outside training agencies or seminars/conferences.
- ➤ There are lots of motivational schemes like best teacher award, best researcher award, young researcher award, incentive for doing funded/consultancy projects, patenting, productionizing the patents etc.
- ➤ For obtaining PhD, not only reduction in work load but also leave is sanctioned for the faculty to pursue and complete the PhDs.
- ➤ Further, some of the faculty are deputed to other institutes on study leave to pursue and get PhDs.
- ➤ Exit feedback as per the predesigned format are taken from those resigning the services, and necessary corrective action are taken.

6.3.7 Faculty and Staff recruitment

- Depending on the AICTE norms for the faculty and others, workload etc, recruitments are done as per the laid down guidelines. Normally, before the beginning of the academic calendar, vacancies are assessed by the Principal's office and if sufficient no. of eligible candidates are not there in data base maintained by the office, either advertisement is given through newspaper or website for the candidates meeting the eligible norms. On receipt of applications, short listed candidates are either called for interview or written test and selections are conducted by the nominated committees as per the procedure. The identified candidates are then sent to the trust for their final approval before issuing the appointment order.
- ➤ During the year 2015 -2016, 35 no. of teaching staff and 18 no. of non-teaching staff were recruited.

6.3.8 Industry Interaction / Collaboration

Industry Institute Interaction is being established in the institution from a long time. This has resulted in having Industry based labs, publications in association with industries, Consultancy Projects, internships to both UG and PG students, starting industry based electives, training programs by faculty to industry representatives, expert lectures by industry experts, industry visits

Apart from the above we have faculty from industry representing in BOS, faculty from industry in Academic Council, faculty with industrial experience and professional Societies.

In the year 2015-16 we are able to get MoU from 10 different industries to different departments such as ISE, ECE, Civil, ME, IEM, CSE, BT, and Chemical. The details is enclosed in Annexure-6.3.8

6.3.9 Admission of Students

Admission process for UG is done through

- Common entrance (CET) test conducted by Karnataka Examination Authority (KEA) a state agency for candidates who are domicile of Karnataka for seven years or more.
- Common test conducted by Karnataka Unaided Private Engineering Colleges Association Authority (i.e. COMED-K) for both Karnataka & Non-Karnataka candidates aspiring for Engineering, Medical and Dental seats.
- The above admissions are purely based on merit and as per reservation norms laid down by the Government of Karnataka.
- A few seats are available under Govt. of India Quota for which nominations come from central government through DTE, Karnataka.
- The minimum percentage of marks in PCM is 45% under GM and 40% under SC/ST.
- The admission process for UG programs is followed as per the Government of Karnataka norms which consists of:
 - o KEA (CET) entrance examination quota (Only for Karnataka students): 45%.
 - o COMED-K entrance examination quota (All India): 30%
 - o Management Quota: 25%

Admission process for PG

- Graduate Aptitude Test for Engineering (GATE) is conducted on all India basis and admission to various programs are done as per the eligibility criterion of VTU on merit.
- Common entrance test conducted by state agencies ie PGCET for merit & Karnataka students.
- Admission to MCA programme for Karnataka candidates is made based on PGCET conducted by KEA
- For Karnataka and Non Karnataka candidates through KMAT conducted by Karnataka Unaided Private Engineering Colleges Association Authority.
- The minimum percentage for admission in PG programs is 50% in case of GM and 45% in case of SC/ST
- The admission process for PG programs is followed as per the Government of Karnataka norms which consists of:
- GATE/ PGCET (KEA) entrance examination quota (Only for Karnataka students):80%
- Management Quota: 20%
- The admission process for MCA program is followed as per the Government of Karnataka norms which consists of:
- PGCET (KEA) entrance examination quota (Only for Karnataka students): 50%
- KMAT Quota: 50%

Admission to PhD/M.Sc. engg by research:

Admission to PhD is through common entrance test conducted by VTU, Belagavi. The eligible candidates are called for interview at VTU office/Regional office and the successful candidates are asked to register for Ph.D/M.Sc. Engg. By research.

Admission to M. Tech. - CSE QIP

- The institution is a recognized extension center of VTU for QIP studies i.e. M.Tech in CSE. This is a three year weekend program and is for sponsored candidates. Faculty from engineering colleges and polytechnics and personnel working in industries can apply to this program through their respective employers.
- The admission to this program is based on merit in the qualifying examination (B.E./B.Tech), written test/interviews and experience.

6.4 Welfare schemes for

a. Financial Assistance for attending conferences/publishing papers:

Details are provided in Annexure 6.4

- **b.** Incentives for taking up Consultancy projects:
- a) All faculties are encouraged to take up consultancy projects. A project would be considered a consultancy project, when the project is initiated with an appropriate MOU/NDA in the name of the institute. In case of consultancy, the incentives are provided in Annexure 6.4

c. Patents Royalty:

- a) Faculty are encouraged to file patents and the Institute not only bears the expenditure involved in filing but also extends the help of consultants, if required in preparation of the documents for filing.
- b) All patents filed by the Institute in the name of the student and faculty belong to the Institute. The Institute has the right to offer exclusive or non exclusive right for any appropriate period of time to any agency as also sell the patents.
- c) The Institute may also give exclusive or non exclusive right to the faculty who are involved in the development of the patents, with appropriate royalty or equity agreement, if the said patent holders are involved in setting up the company to use the developed technology.
- d) The revenue share between the patent holders and the institute based on revenue are as under:

I. For a revenue < Rs 10 lakhs : 75% to patent holders and 25% to Institute; II. For a revenue > Rs 10 to 25 lakhs : 65% to patent holders and 35% to Institute; III. For a revenue > Rs 25 to 50 lakhs : 55% to patent holders and 45% to Institute; IV. For a revenue > Rs 50 lakhs : 40% to patent holders and 60% to Institute.

- d. Completion of 10 years of continuous service in the post and another one on completion of 20 years of service in the same post is given as an incentive.
- e. Allotment of Seats in RV Institutes:

Special consideration is also given to wards of employees in allocation of seats in Institutions run by RSST including RVCE.

f. Sports facility:

The employees are permitted to utilize the sports facilities free of charge.

g. Provision of facility for OOD (On Official Duty):

On official duty (OOD) is defined in the Institution and approved in the 11th GB meeting held on 6th February 2014. As per this resolution the faculty members are getting OOD facility for attending conferences/ workshops/seminars, visits as Subject expert/panel member/ examination member, invited talks to various agencies including NBA/NAAC/DRDO/DST/Companies/other institutions etc. as per the cadre given below

- Asst. Professors 10 days per year.
- Asso. Professors & Professors 14 days per year
- Prof.& HoD 20 days per year (Non vocational posts)

6.5 Total corpus fund generated:

There are four main heading in which Corpus Fund is available:

Faculty Development Fund: 112.82 Lakhs
 Maintenance Fund: 76.59 Lakhs
 Equipment Fund: 54.71 Lakhs
 Corpus fund: 76.59 Lakhs

6.6 Whether annual financial audit has been done Yes No

6.7 Whether Academic and Administrative Audit (AAA) has been done?

Audit Type	External			Internal
	Yes/No	Agency	Yes/No	Authority
Academic	Yes	Reputed Institution /University Professors	Yes	Academic Advisory and Monitoring Committee
Administrative (Finance)	Yes	SANTHAPPA & Co. Unit No. 201, II floor, House of Lords, 15 & 16, St. Mark's Road, Bengaluru-560001 admincgb@santhappa.com	Yes	CA S. ASHOK #83, Sunkalpet Main road, Near Cubbonpet Market, Bengaluru-560002 caash20@gmail.com

6.8. Does the University/ Autonomous College declare results within 30 days?

For UG Programmes	Yes 🗸	No _	
For PG Programmes	Yes 🗸	No	

6.9 What efforts are made by the University/ Autonomous College for Examination Reforms?

Reforms to improve Quality and standard of the process and the students:

- ❖ The eligibility for transitional grade 'X' is increased from 60% to 75%
- Passing standard for courses having both theory and laboratory component is improved by keeping minimum passing marks for theory and laboratory separately.
- The above two changes has reduced the misuse of the provision and has also improved the academic standard of the students.
- ❖ Strengthening the redressal process by allowing the external examiner for revaluation and challenge valuation has further improved the credibility of the system/process
- ❖ Barcoding of answer scripts Reduction in error rate
- ❖ The college adheres to the declared examination schedules

Continuous evaluation of students and ensuring their progress and improved performance.

- ❖ Percent weightage of CIE to Semester End Examination (SEE) is 50:50
- There is no choice in the test and quiz question paper.
- ❖ Test and quiz are conducted with the same rigor as SEE (question paper scrutiny, proper seating arrangement for students, invigilation process, squad monitoring conduction of quiz and test).

The components of Continuous Internal Evaluation (CIE) are test, quiz, assignment (project/paper presentation/field work) and self-study, which will be conducted at regular intervals.

6.10 What efforts are made by the University to promote autonomy in the affiliated/constituent colleges?

The university has laid rules and regulation to be followed by the autonomous colleges. University visits the college to verify the standard and process followed in terms of LIC committee and checks for compliance.

6.11 Activities and support from the Alumni Association

Alumni Association of RVCE is very active. The annual general body meeting and college level alumni meet is held every year on August 15. It is well attended. Association in collaboration with each department, department alumni meet is arranged every month. There has been good interaction with the department for improvement.

Alumni association provides Silver medals to the 2^{nd} rank holders each year during the graduation day celebration. They also celebrate teacher's day by sponsoring food to all the faculties.

6.12 Activities and support from the Parent – Teacher Association

Parents teachers meeting is held at two different levels. First year, this meeting is held at college level to enable all the department to participate and discuss with the parents. The second level is the department level for higher semester students.

There has been a healthy and fruitful discussion with the parents for the welfare of the students and improvement of the institution.

Parents are actively participate during the visits of NBA/NAAC to give feedback for improvement

6.13 Development programmes for support staff

Non-teaching staff are trained not only technical skills required to perform their duties but also trained on soft skills, which would be helpful in dealing with customers. The trainings conducted on topics such as:

- a. Personality development
- b. Communication skills
- c. Fire fighting
- d. Computer operations.
- e. Various technical training programs.

6.14 Initiatives taken by the institution to make the campus eco-friendly

- 1. Segregation of waste into plastics, paper & wet waste and disposal of the segregated:
- a. recyclable solid waste to 'Samarthanam Parisara', An NGO associated with educating/training visually disabled persons,
- b. Non-Recyclable solid waste to BBMP contractors for disposing the same in authorised landfills
- 2. e-waste disposal to KSPCB approved e-waste recyclers,

- 3. Tree plantations on environmental day/independence day.
- 4. Rain water harvesting,
- 5. Installation of rooftop solar power station of capacity 510 KVA,
- 6. Provision of solar water heaters in all the Hostels,
- 7. Usage of highly energy efficient LED lighting system and projectors, usage of 3 star / 5 star rated electrical appliances
- 8. Paper recycling;
- 9. Usage of paper on both the sides for writing,
- 10. Sewage water recycling
- 11. Conversion of food waste in to manure,
- 12. Disposal chemical effluent to KSPCB approved recyclers
- 13. Display boards all over the campus with regard to conservation of resources.
- 14. Medicinal plants garden
- 15. Cleanliness drives during 'Swachch Bharat', and 'Swachcha Pakwada'.

Criterion – VII

7. Innovations and Best Practices

- 7.1 Innovations introduced during this academic year which have created a positive impact on the functioning of the institution. Give details.
- 1. A roof top solar power generating plant of capacity 500 KW has been installed which has resulted in lots of reduction in consumption of electric energy supplied by BESCOM.
- 2. All incandescent lights and other ordinary tube lights/street lights are being replaced with highly efficient LED lights
- 3. All Computers with CRT monitors have been replaced with highly energy efficient LED monitors
- 4. All new projectors procured are of LED variety only as a green initiative.
- 5. Rain water harvesting plants are provided to harvest rain water from roof tops departmental buildings.
- 6. Sewage waste treatment plant of capacity 250 litres per day is provided for treating the sewage water generated inside the campus. The treated water is used for either gardening or flushing purpose in the hostels.
- 7. All the waste paper /plastic collected in the campus are segregated and handed over to Samarthanam Trust an NGO, who in-turn utilises the proceeds from the same for educating the visually impaired persons.
- 8. In all cases of bulk purchases, a clause has been added for the supplier to collect the packaging materials back reutilization of the same. This system is working well for all the bulk purchasers.

The institution feels that some of the Good Governance Practices it is following are:

- The GB monitors the performance, quality of academic activities, action taken on grievances, placement records, participation of faculty in research & publications and students participation in extra as well as co-curricular activities.
- Principal/ member secretary is required to present the college performance in every GB. Principal and senior professors are required to answer any quarries regarding progress, quality, new proposals and other issues that the GB members raise. This helps in quality assurance.
- GB and AC members participate in various activities and programs of the institution from time to time including conferences and workshops.
- Discussions and analysis are performed on issues like Examination results, placement, student feedback, admission quality, faculty knowledge enhancement, hand holding in various new research areas and such other activities where qualities as well as sustainability are the main criteria.
- Industry representatives in the GB give inputs from industry perspective for tie ups, internships, placements and III initiatives.
- The chairman keeps in touch with the principal to give suggestions and keep informed about various activities. Head of the institution also invites the chairman and other members of GB for important activities held in the institution.

- Proceedings of the Governing Body is published in the RVCE website, www.rvce.edu.in
- Audited statement of previous financial year is posted on the website.
- Decentralization and working towards openness.
- The size, skills, competences and experiences of the Governing Body members is kept in mind before appointment.
- 7.2 Provide the Action Taken Report (ATR) based on the plan of action decided upon at the beginning of the year
- 1. To enhance the no. of PhD faculty: Encouraged to pursue by reducing workload or sanctioning of study leave. As a result, the no. of PhDs increased by 24 during the year 2015-2016.
- 2. Internet band width has been increased from 150 Mbps to 300 Mbps.
- 3. Patents have been filed. To register the patent, the institution supported, guided and is also helping for commercialization.
- 7.3 Give two Best Practices of the institution (please see the format in the NAAC Self-study Manuals)
 - i. Outcome based education with a focus on experiential learning
 - ii. Interdisciplinary research

*Provide the details in annexure (annexure need to be numbered as i, ii,iii)

- 7.4 Contribution to environmental awareness / protection
 - 1. Cleanliness drives in the campus, Hostels, surrounding areas (including roads) and some of the villages around the college during 'Swachch Bharat', and 'Swachcha Pakwada'.
 - 2. Organising talks by experts on 'environment'.
 - 3. Creating awareness among villages through talks by our students/faculty,
 - 4. Display boards in the campus with regard to resource conservation,
 - 5. As a part of curriculum, one subject on environment has been introduced to students of all programs,
 - 6. Tree plantations on environmental day
 - 7. Participation in Swachha Bharat and Swachhata Pakhwada.

7.5.	Whether environmental audit was conducted?	Yes	>	No	

- 7.6 Any other relevant information the institution wishes to add. (for example SWOT Analysis)
 - After the UG programs became autonomous in 2007, several statutory committees were set up to monitor and guide proper functioning of autonomy. In addition institutional and departmental committees have been setup as a part of decentralization process and delegating responsibilities to various cadres. In order to bring a new thinking and create opportunities the Vice Principal, Head of the Departments and Deans posts have been made by rotation among senior professors. Budgeting procedures have been changed from 2012 to provide inclusive growth opportunity for UG, PG and Research infrastructure.

- ➤ Strategic planning is carried forward from the departments to IMPPIACT. The strategies are discussed in brainstorming workshop and finalized to be forwarded to GB for approval. This brings in total transparency in to the total process of institutional building. Students are also nominated to GB so that they can also participate in institution building.
- Academic Practices: As per the new policy of Indian Higher Education, the institution has adopted OBE frame work in curriculum formation. This framework requires participation of all key stakeholders to contribute in curriculum development and outcome assessment, thus bringing inclusiveness and transparency.
- ➤ Evaluation and Assessment: Faculty members teaching a course and experts from within the institution and other institutions are involved in evaluation process and assessment. Inputs of Academic Council are taken in improving the process.
- Administrative Practices: A 360 degrees appraisal system exists (Self-appraisal, peer appraisal, HoDs appraisal and student appraisals) and the staff is counselled to overcome weaknesses and excel in their respective fields. Key posts are offered by rotation.
- Financial Practices: The budgeting starts at department level with a budget committee. The proposals are consolidated and discussed in institutional accounts committee keeping in mind the income prior to placing before the statutory Finance Committee for final approval. This ensures participation of faculty of all cadres to the college authorities.
- Research & Innovation: Interdisciplinary research work is encouraged among the faculty and students. Students are provided opportunities to participate in innovative projects & research through self-learning under the mentoring of faculty.
- Extra- Curricular activities: Keeping in view the importance of inclusiveness in all activities. Both faculty and students are involved in budgeting, planning and executing.

8. Plans of institution for next year

- To introduce online transfer of information to the parents.
- To provide ICT facilities to students to get lesson plan, notes and videos.
- To encourage faculties to publish their research only in the reputed journals with good impact factor and Scopus index.
- Use of technology (MOOCs, NPTEL) for enhancing the learnability coefficient (self-pace) of the graduates.
- Collaborative efforts with the industry personnel for enhancement of learning levels of the graduates.
- Establishment of Interdisciplinary research teams to work in niche areas in collaboration with industry and research organisations

Name	Name
Signature of the Coordinator, IQAC	Signature of the Chairperson, IQAC

Annexure I

Abbreviations:

CAS - Career Advanced Scheme
CAT - Common Admission Test
CBCS - Choice Based Credit System

CE - Centre for Excellence

COP - Career Oriented Programme

CPE - College with Potential for Excellence
DPE - Department with Potential for Excellence

GATE - Graduate Aptitude Test
NET - National Eligibility Test

PEI - Physical Education Institution SAP - Special Assistance Programme

SF - Self Financing

SLET - State Level Eligibility Test
TEI - Teacher Education Institution

UPE - University with Potential ExcellenceUPSC - Union Public Service Commission

Recognitions

- ✓ Appreciated by Lions, Rotary and several other blood banks for conduction of Annual Blood Donation Camp.
- ✓ 1482 units of blood collected in a single day
- ✓ Appreciation from YFS NGO- (Youth for Seva)

Annexure 4.1

Equipment bought during the financial year 2015-16 costing more than 1 lakh

RVCELE13131	3-Nov-15	FLUKE Thermal Imager	858750.00
RVCELE13205	28-Dec-15	NI-LabView Academy Hardware Bundle	1070827.00
RVCELE13134	28-Jan-16	Magnetic Particle Bench Unit	800000.00
RVCELE13135	28-Jan-16	Magnetic Particle Inspection Unit	160000.00
RVCELE13203	8-Feb-16	MICROWAVES	142425.00
RVCELE13204	8-Feb-16	MICROWAVES	142425.00
RVCELE13240	21-Mar-16	Deep freezer (-86deg C)	844000.00
RVCELE13446	30-Mar-16	Extensometer	133965.00

1. MDI 2356/08-4 014.3.09

RASHTREEYA SIKSHANA SAMITHI TRUST R.V.TEACHERS COLLEGE BUILDING, II BLOCK, JAYANAGAR, BANGALORE-11.

Ph: 26562386/26561777 Fax: 91-080-26568290 Email: rsst@vsnl.com

Ref: RSST/5590 /2008-09

06-04-2009

Sub: Draft Guidelines for providing financial assistance to the faculty members of RVCE for attending International/National Conferences – reg.

Ref: 1) No.RVE/PS/1390/08-09 dt.01-01-2009.

- 2) No.RSST/4491/2008-09 dt.10-01-2009.
- 3) No.RVE/1450/08-09 dt.13-01-2009.
- 4) No.RSST/4584/2008-09 dt.16-01-2009.
- 4) No.RVE/1709/08-09 dt.05-03-2009.

We have received the above draft guidelines and it may be kindly noted that these draft guidelines are not for just attending International & National Conferences but for presenting papers at International and National Conferences. The same may be corrected in your records.

We have kept a copy sent by you for our reference and the same will be applied in all cases recommended by you till further notice.

Hon.Secretary.

To:-

The Principal, R.V.College of Engineering.





RASHTREEYA SIKSHANA SAMITHI TRUST

R. V. COLLEGE OF ENGINEERING

pproved by All India Council for Technical Education, New Delhi ffiliated to Visvesvaraya Technological University, Belgaum, Karnataka coreditated by National Board of Accreditation, New Delhi.

Phone 080 - 57178000 080 - 57178001 080 - 67178021 Fax: 080 - 28600337 Famili: principal@rvce,ac.in Web Site: www.rvce,ac.in

Office of the Principal, R. V. Vidyaniketan Post, Mysore Road, Bangalore-560 059.

RVCE/ 1709 /08-09

09-3-2009

To: Hon. Secretary RSST, Bangalore.

Respected Sir,

Sub:Draft Guidelines for providing financial assistance to the faculty members of RVCE for attending / presenting papers in International / National Conferences – reg.

Ref: RSST/2145/2008-09 dtd. 12-8-08. RSST / 5390 / 2008-09 dtd. 6-4-2009.

With reference to the above cited subject, I would like to bring the following to your kind attention.

- 1) If a faculty is having funded project in his/her name and handling a PG course, he /she may be given 100% financial support from the college to attend / present papers in International Conference, subject to the recommendation of the Head of the Dept./Institution, regarding the quality of paper and the stature of the organizers of the conference.
- 2) If a faculty is handling only PG course, the college can sponsor 60% of the amount for attending / presenting papers in International Conference. The remaining 40% may be obtained from other sources or contributed by the faculty himself/herself.
- 3) If a faculty is handling UG course, the college can sponsor 50% of the amount for attending / presenting papers in International Conference. The remaining 50% may be obtained from other sources or contributed by the faculty himself/herself.
- 4) All the staff members can avail the facility of 100% sponsorship from the college, for attending / presenting papers National Conferences.
- 5) A faculty may be sponsored for attending / presenting papers in International Conference once in two years. However, a faculty may be sponsored for attending / presenting papers in National Conference two times in a year, based on the need and on the recommendation of the Head of the Dept./Institution.
- 6) If the faculty is pursuing higher studies, sponsorship from the college may be given to such faculty for attending / presenting papers in National Conference, based on the recommendation of the Guide / Head of the Dept. However, if a faculty is pursuing higher studies with a funded project, sponsorship from the college may be given to such faculty for attending / presenting papers in International Conference, based on the project justification & recommendation of the Head of the Dept./Institution.





R. V. COLLEGE OF ENGINEERING

pproved by All India Council for Technical Education, New Delhi ffiliated to Visvesvaraya Technological University, Belgaum, Karnataka ccreditated by National Board of Accreditation, New Delhi.

Phone: 080 - 67178000 080 - 67178001 080 - 67178021 Fax: 080 - 28600337 E-Mail: principal@rvce.ac.in Web Site www.nce.ac.in

Office of the Principal, R. V Vidyaniketan Post. Mysore Road, Bangalore-560 059.

- The Quality of Papers has to be monitored by the respective guides and the guides should submit his/her recommendations in this regard, to the Principal.
- 8) For sponsorship to attend / present papers in International Conferences abroad, the faculty has to complete his/her probationary period. However, if any faculty is doing extra-ordinary research work and has a funded project in his/her name, sponsorship may be considered based on the recommendation of the Head of the Institution.
- 9) A few of the refereed International Journals ask the authors to bear the expenses related to the process of review of the papers by various referees. Such expenses may be borne by the College under exceptional cases only. (Maximum of Rs.50,000/- only)
- 10) The college is shortly applying for accreditation of PG courses. Since the accreditation process provides weightage for publication by faculty and therefore it is imperative to encourage faculty to publish papers, it is not possible to estimate the financial commitment.

This is for your kind information,

Thanking you with high regards, Yours sincerely,

Principal AL R.V. College of Engineering Bangalore-560 059.

S. (the





R.V. COLLEGE OF ENGINEERING

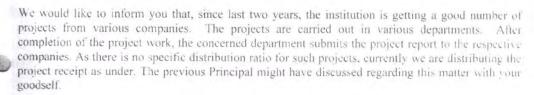
(Autonomous Institution affiliated to Visvesvaraya Technological University,
Approved by All India Council for Technical Education, New Delly

RVCE IACC to /714 115-16

To: The Hon. Secretary RSST, Bangalore.

Dear Sir.

Sub: Distribution ratio of Institutional Projects / Training Programmes.



SI. No.	Particulars	Distribution Percentage (with utilizing college infrastructure)	Distribution Percentage (without utilizing college infrastructure)
1	RSST (As Management Portion)	25%	25%
2	RVCE (as Institution portion)	15%	10%
3	Administrative Expenses (to distribute among staff involved in the office)	5%	5%
4	Concerned Dept. (to distribute among staff involved in the dept.)	55%	60%

From the last two years, we had transferred Rs. 3.85 lakhs to RSST as Management portion.

As there is no official order in this regard, we request you to kindly approve and permit us to follow the above procedure until further orders.

Thanking you

Yours truly

Principal Ve.

RVCE, BANGALORE

R.V. Vidyaniketan Post, Mysore Road. Bengaluru - 560 059 INDIA. 91-080-67178000/01.02 Fax: #91-080-28600337 67178011 e-ma Website: www.rvce.edu.in; www.rvinstitutions.com

No: 3.5.74.

e-mail principal a ivee edu in

Revised Guidelines of IQAC and submission of AQAR

ACADEMIC CALENDAR FOR B.E. FOR THE YEAR 2015-2016 ODD SEMESTER: 01-08-15 to 21-11-15

EVENT	DATES	REMARKS
Inauguration of First Year	31-07-15	
Orientation for new comers.	01-08-15	
Commencement of classes and Registration for higher semesters	03-08-15	
Last date for registration for higher semesters	05-08-15	Without fine
Last date for announcement of Self Study Topics	12-08-15	
Alumni Day	15-08-2015	
Auditions for extracurricular activities & selection for college sports/games teams	10-08-15 to 16-08-15	After the working hours time table will be announced by specific coordinators
Dropping of courses	31-08-15	Applicable for higher semesters only
Test-I (Quiz & Test combined)	07-09-15 to 09-09-15	Continuous internal evaluation
Intra College Sports	10-09-15 to 26-9-15	
Counseling and Dispatch of progress reports	14-09-15	
Self Study Topic Evaluation	12-09-15 and 26-09- 15	Phase –I
Remedial classes for underperforming students	14-09-15 to 3-10-15	
Faculty appraisal by students	22-09-15 to 26-09-15	Round 1
Test-II(Quiz& Test combined)CIE	08-10-15 to 10-10-15	Continuous internal evaluation
Parent Meet	10-10-15	
College sports day(Inter Collegiate Sports)	16-10-15 to18-10-15	
Counseling and Dispatch of progress reports II	15-10-15	
Self Study Topic Evaluation	17-10-15 and 31-10- 15	Phase –II
Remedial classes for underperforming students	13-10-15 to 04-11-15	
Submission of seminars/assignments reports	29-10- 15 to 31-10-15	
Withdrawal of courses	02-11-15	Applicable for higher semesters only
Project Topic finalization for VIII semester	02-11-15 to 04-11-15	Major project
Faculty appraisal by students	26-10-15 to 31-10-15	Round 2
Test-III (Quiz& Test combined)	05-11-15 to 07-11-15	Continuous internal evaluation
Selection of electives for sixth semester	13-11-15 and 14-11-	

courses	15	
Karnataka Rajyotsava	18-11-15	
Last Working Day	21-11-15	
Semester End Examination (Practical)	24-11-15 to 05-12-15	
Semester End examinations (Theory)	07-12-15 to 24-12-15	
Declaration of results	31-12-15	
Applying for photo copies, re-totaling	1-01-16 to 04-01-16	
Issue of photo copies	06-01-16	
Applying for revaluation/make up examinations	01-01-16 to 09-01-16	
Make up examination	11-01-16 to 16-01-16	For X and I grade students
Declaration of result of makeup exam	25-01-16	
Applying for Challenge valuation	25-01-16 to 28-01-16	

ACADEMIC CALENDAR FOR B.E. FOR THE YEAR 2015-2016 EVEN SEMESTER 01-01-16 to 23-04-16

Registration	01-01-16 to 5-1-16	Without fine
Commencement of classes	01-01-16	
Assessment of project synopsis- Phase I	11-1-16 to 16-01-16	For VIII semester
Allotment of seminar topics/self study topics	11-01-16	
Dropping of course/s	30-01-16	Applicable for higher semesters only
Test-I(Quiz& Test combined)	08-02-16 to 10-02-16	Continuous internal evaluation
Techno-cultural Fest "8th Mile"	20-2-16 and 21-2-16	
Project Evaluation- Phase II	15-02-16 to 19-2-16	For VIII semester
Faculty appraisal by students	22-02-16 to 27-02-16	Round 1
Remedial classes for underperforming students	15-2-16 to 04-03-16	
Counseling and Dispatch of progress reports	15-02-16	Including project evaluation
Self study evaluation I	13-02-16 and 27-02-16	Phase-I
Project Evaluation- Phase III	14-3-16 to 18-03-16	For VIII semester
Test-II(Quiz& Test combined)	10-03-16 to 12-03-16	Continuous internal evaluation
Faculty appraisal by students	14-03-16 to 19-03-16	Round 2
Submission of seminars/assignments	23-03-16 to 24-03-16	
Remedial classes for underperforming students	17-03-16 to 08-04-16	
Counseling and Dispatch of progress reports & Parent Meet	14-03-16	Including project evaluation
Self Study evaluation -II	26-03-16 and 09-04-16	Phase-II
Submission of draft project report for verification	04-04-16 to 05-04-16	
Test-III(Quiz& Test combined) CIE	11-04-16 to 13-04-16	Continuous internal evaluation
Withdrawal from course/s	11-04-16	
Online registration for departmental / global	15-04-16 and 16-04-	
electives for ODD semester	16	
Project Final Internal Evaluation- Phase IV	11-04-16 and 12-04-16	For VIII semester
Announcement of Proficiency courses	15-04-16	
Submission of Final Project report	18-04-16	
Final year "At Home" function	22-04-16	
Last working day	23-04-16	
Registration for Proficiency course/s	25-04-16	
8 th Semester CIE marks submission	25-04-16	

8 th Semester End Project Evaluation(SEE)	02-05-16 to 07-05-16
Semester End Examination(Practical)	28-04-16 to 07-05-16
Semester End Examinations(Theory)	06-05-16to 20-05-16
Declaration of results	28-05-16
Applying for Re-totaling and photo copies.	28-05-16 to 31-05-16
Proficiency Course/s – I	30-05-16 to11-06-16
Issue of photocopies	03-06-16
Applying for revaluation and make up	30-05-16 to 06-06-16
Examination	30-03-10 to 00-00-10
Make up examination	08-06-16 to 15-06-16
Declaration of results of makeup	22-06-16
examination	22-00-10
Applying for challenge valuation	23-06-16 to 25-06-16
Proficiency Course/s – II	18-07-16 to 30-07-16

FAST TRACK CLASSES

30-05-16 to 09-07-16

Registration for Fast track	30-05-16	
Commencement of classes	30-05-16	
Test-I (Quiz & Test)	12.06.16 +- 15.06.16	Continuous internal
Test-I (Quiz & Test)	13-06-16 to 15-06-16	evaluation
Test-II (Quiz & Test	04-07-16 to 06-07-16	Continuous internal
Test-II (Quiz & Test	04-07-10 to 00-07-10	evaluation
Last working day	09-07-16	
Semester End Examinations(Practical)	11-07-16 to 13-07-16	
Semester End Examinations (Theory)	15-07-16 to 30-07-16	
Commencement of odd Semester	01-08-16	
Declaration of results	06-08-16	

Annexure-1

Members of IQAC:

Chairperson	Dr. K.N.Subramanya, Principal, RVCE
One senior administrative officer	1) Sri. A.R. Krishna Reddy, Registrar
Three to eight teachers	 Prof. N.K. Srinath – Dean (Student Affairs) Prof. P. Ramakanth Kumar, Dean (Academics) Prof. S.C. Prasanna Kumar, Prof., Dept. of EIE Prof. S. Jagannathan, Prof., Dept. of ECE Prof. K. Vasudeva Banninthaya, Prof., Dept. of EEE Prof. B. Anand, Prof., Dept. of ME Prof. Nagashree N. Rao, Assoc. Prof., Dept. of BT Prof. Ramaa A., Assoc. Prof., Dept. of IEM Prof. Archana M.R, Asst. Prof., Dept. of CV
One member from the Management	1) Sri. D.P. Nagaraj, Hon. Jt. Secretary, RSST.
One/two nominees from local society, Students and Alumni	Dr. Sudarshan Rao M/s. Big Solv Labs, # 728, 10th Main 7th Cross, MICO Layout, B.T.M II Stage, Bengaluru-560076. Prof. U.H. Acharya, Professor, SQC & OR Unit, Indian Statistical Institute, 8th Mile, Mysore Road, Bengaluru – 560059. Ms. Soumya Mahalakshmi, VI Sem. CSE Mr. Varshik M Sunder, VI Sem. IEM
One/two nominees from Employers/ Industrialists/ stakeholders	1) Mr. Suneel Shankar Manager – Quality Assurance, Oracle Communications GBU, Oracle India Pvt. Ltd., Kalyani Magnum Infotech Park, Block, I&II, 'B' Wing, 165/2, Doraisanipalya, J.P. Nagar, 7th Phase, Bengaluru – 560076. 2) Dr. M.H. Kori Technology Consultant, 520, 11th 'A' Cross, R.M.V. Extension, Sadashivanagar, Bengaluru – 560080.
One of the senior teachers as the Coordinator/ Director of the IOAC	Prof. K.N. Raja Rao, Advisor, RVCE