SELF STUDY REPORT

FOR

1st CYCLE OF ACCREDITATION

R. T. E SOCIETY'S RURAL ENGINEERING COLLEGE, HULKOTI

R T E SOCIETYS RURAL ENGINEERING COLLEGE NH63, GADAG HUBLI
ROAD HULKOTI
582205
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BANGALORE

February 2022

1. EXECUTIVE SUMMARY

1.1 INTRODUCTION

1.1 INTRODUCTION

Rural Technical Education Society Hulkoti.

Founded by Late Shri. K. H. Patilji, A doyen of the Co-operative movement. Popularly known as "Sahakari Rangada Bheeshma" and he was awarded the Best Promoter of co-operative movement at Asia Level. He was a Former KPCC Chairman and served the Government of Karnataka as Minister of Revenue, Forest and Panchayat Raj and many more.

The Rural Technical Education (RTE) Society was established in 1980 in Hulkoti with the divine blessings of Sri Sri Sri Thiruch Mahaswamiji of the Kailash Ashram, Bangaluru. Hulkoti takes pride in being a pioneer in the cooperative sector and specially is known for the Textile Mills. This society with its two prominent Institutes, the Rural Polytechnic, Hulkoti and the Rural Engineering College has brought Technical Education at the door steps of the rural mass and today we find the Alumni of these Institutes placed adequately with prominent positions all over the Globe, yet still cherishing the fond memories of their stay in the institute.

R.T.E. Society's Rural Engineering College, Hulkoti

R.T.E. Society's Rural Engineering College is approved by Government of Karnataka and All India Council of Technical Education, New Delhi and is presently affiliated to Visvesvaraya Technological University, Belagavi, (VTU) The institution is spread over on a lush green campus of 42.5 acres. The campus has all the basic amenities for the overall personality development of the students with adequate infrastructure. The college was started with Four Under Graduate programmes namely:

1) Automobile Engineering

2) Civil Engineering

3) Textile Technology

4) Chemical Engineering

It received an over whelming response from students planning to pursue Technical Education and hence further programmes were introduced

1. Mechanical Engineering.
2. Electronics & Communication Engineering
3. Computer Science & Engineering

Research Centre in the department of Mechanical Engineering and in the department of Computer Science Engineering respectively and approved by Visvesvaraya Technological University Belagavi..

Vision

To be a globally recognized engineering institute ensuring academic excellence coupled with human values, fostering innovation and entrepreneurial attitude.

Mission

- To impart quality technical education with Life-long learning capabilities.
- Promote practical based learning to address societal problems.
- Equip graduates with sound technical and soft skills to be globally employable, who can take up challenges of the present and the future
- To produce morally, ethically and responsible engineers.

1.2 Strength, Weakness, Opportunity and Challenges(SWOC)

Institutional Strength

- REC is proud to claim to be a safe, ragging free and beautiful green campus with ultra-modern facilities to learn and live.

- Pollution free well connected campus located in rural area.
- Highly qualified competent, experienced and dedicated teaching faculty members.
- State-of-art infrastructure, well equipped Laboratories and latest software tools.
- Student centric teaching learning with mentoring/counseling
- Strong alumni base.
- Innovative techniques for producing quality fabrics
- Proactive training and excellent campus placement.
- Technology driven instructional methodology with EDUSAT and NPTEL supported teaching videos.
- Excellent facilities for sports
- On campus hostels for boys & girls with hygienic food facility.
- Wi-Fi enabled campus with 70 + 10 Mbps dedicated lease line internet connectivity

Institutional Weakness

Institutional Weakness

- Lack of International Collaborations.
- Fewer number of patents.
- Less consultancy work.
- Funded Research Projects.

Institutional Opportunity

Institutional Opportunity

- Potential for getting grant in aids / funds from various funding agencies.
- Scope for expanding base of Alumni network for academic & placement activities.
- Opportunities to expand activities like entrepreneurship, incubation, R & D centre.

Institutional Challenge

Institutional Challenge

- Acquiring more number of Research projects
- Placements in core industries.
- Initiating consultancy services from the industries
- Strengthening industry institution interaction.
- Industry ready graduates.
- Creating Entrepreneurs.

1.3 CRITERIA WISE SUMMARY

Curricular Aspects

The Rural Technical Educational Society's, Rural Engineering College (REC) Hulkoti, is an affiliated institution under the Visvesvaraya Technological University (VTU), Belagavi.

The Institution strictly adheres to the guidelines given by the University and prepares the calendar of events in line with the University academic calendar for effective implementation of curriculum and to ensure balance between the various engagements the students are supposed to participate.

The Individual departments strive hard for a better delivery of the Choice Based Credit System (CBCS) curriculum through a combination of innovative and appropriate teaching plans detailed to be within the available time frame, yet provided with flexibility to accommodate changes. To assess the students on their understanding levels, each faculty is assigned mentorship to monitor academic progress. After the continuous internal assessment (CIE) a student feedback is gathered, analyzed and corrective actions taken as part of continuous improvement. Remedial classes are planned if necessary to bolster student performance in semester end examination (SEE).

The Institution is well equipped with Eight ICT facilities classroom, four smart class room like smart boards, Wi-Fi and good audio-visual equipment and ten normal class rooms. These are extensively used by teachers to make learning interesting and attractive. Much attention is paid to experiential learning aspects in the laboratory and Interactive learning. So far 40 Add On /Certificate programs are conducted on various emerging trends during the five assessment years. Members of the staff being well qualified and experienced, they are regularly appointed as BOS/BOE Chairman /Member, or as examiners /evaluators and as paper setters.

Women are being equally empowered with education, ample representation in all committees is emphasized, and hence gender equality and gender sensitizing are being effectively practiced. Representation of women on all boards including General Secretary of the students governing body is a regular feature in our college. Other amenities are provided as per VTU University and AICTE guidelines.

International Women's day, World Yoga Day and Cultural events are also celebrated. Tree plantation, adoption of trees under the banner "One Person -One Tree ", Swach Bharat Abhiyan (on all national days), NSS day. On the eve of our founder patron birthday Blood donation along with health and hygiene camps are organized every year.

Teaching-learning and Evaluation

Teaching-learning and Evaluation

Admissions are carried out as per the guidelines issued by State Government from time to time. The college counsels the students soon after the admission and they are categorized as slow and advanced learner based on their performance in the qualifying examinations. Subsequently categorization of students is made based on the performance of students in the Continuous Internal Examination (CIE).

For the higher semester's students, the results of lower Semester End Examination (SEE) are considered to categorize the advance and slow learners. Remedial classes are conducted for slow learner for improvement of results. Advance learners are motivated to participate in paper presentation and also to carry out innovative projects.

The Institute has adequate and qualified faculties maintaining 15:1 student: Teacher ratio to ensure and sustain good quality in teaching.

The Institution practices blended teaching learning processes from chalk-and-board to smart board. Faculty members make use of Information and Communication Tools(ICT)for effective teaching. Mentorship concept is in practice and a group of 8 to 20 students is assigned to each faculty.

Institution has a total of 92 teaching well qualified and dedicated faculty members having an average experience of 14-15years and more than 33% of the faculties are Doctorates from the reputed Universities.

Internal evaluation is robust and transparent. Evaluation of the student is carried out through three Continuous Internal Evaluation Examination (CIE), assignments and Semester End Examinations (SEE).

The Institution has demonstrated very impressive results in the University Examinations and the average result is 89%.

Course outcome and Program outcomes is evaluated based on student's performance in the Continuous Examination (CIE) and Semester End Examination and exit survey.

Research, Innovations and Extension

Research, Innovations and Extension

RTE Society's Rural Engineering College, Hulkoti (RECH) recognizes the importance of promoting the creative and scientific temper among its students. In this regard, RECH has encouraged its faculty and students to establish linkages with industry and community. Collaboration with the reputed industries is done by signing 23 numbers of Memorandum of Understanding (MOU's). This has helped the students in doing their internship and also the staff members to undergo internship in industries for a period 2/3 weeks. This exposes the staff members to the current trend of technology being practiced in industry. It helps them in upgrading their practical knowledge beyond the syllabus. The staff members are in a position to guide the students in executing higher levels of projects. This leads to improvement in the number of placements too.

Research facilities are created through Grants obtained from both the government as well as non-government

agencies. Vision Group on Science & Technology, Government of Karnataka sanctioned a grant of Rs. 20,00,000/- (Twenty lakhs). This helped in establishing a Research center in our Mechanical Engineering Department. It is recognized for conducting the research work by the research scholars of our College as well as the research scholars from the surrounding Institutions.

Good number of sanctioned and executed student's projects is a measure of the rich research culture exhibited in our institute. The college facilitates the faculties for their research contribution. Research and Development Committee meeting is conducted twice in a year to discuss all the aspects of research activities to promote quality research & publications.

Infrastructure and Learning Resources

Infrastructure and Learning Resources

The institution is spread over 48.28 acres of land with built up area of 18,563.57 sq mt, including Hostel areas for Boys of 2,871.81 sq mt., ladies Hostel of area 989.58 sq mt., and library with an area of 406.00 sq mt. To ensure effective Teaching – Learning process, institute has adequate infrastructure and learning resources. There are twenty two class rooms and forty two well equipped laboratories along with central computing facility. There are eight ICT enabled Class rooms, four smart class room, ten normal class rooms and three seminar halls to offer the interactive teaching –learning experience. There are 342 computers in the campus with the student to computer ratio of 3:1 and internet facility with a bandwidth of 70+10 Mbps from MahaMedia.com Private Limited & BSNL Leased Line (ILL) respectively.

The Institution is having sports complex for outdoor and indoor sports and Gymnasium facility.

Library has a total of 61,629 volumes and books comprising of 28,999 titles on its stack. The Digital Library with 10 systems provides on-line access to e-resources, VTU-NPTEL e-Learning with 4TB of offline video lectures. There are E-books and 20,439 e-Journals on various branches of Engineering, Science, Technology and Management along with 36 National and International Printed Journals. A total of 80 kVA Power back up (Generators) facility exists in the institution of which 50 kVA for college campus, 20 kVA for boys Hostel and 10 kVA for girls Hostel. The Institution has well maintained supporting facilities like Hostels, Canteen, Transportation, Health Center & RO water plant facility.

Student Support and Progression

Student Support and Progression

The institution extends all possible support for the development and progress of students. Every year the institution coordinates and supports students in availing different types of scholarships. A good number of students have been benefitted from these scholarships.

The Student's Council in the institution gives an opportunity for the students to develop leadership abilities involving them in academic, co-curricular and extra-curricular activities through various committees which help in holistic development of the student community. Good numbers of students have been participating in inter-collegiate competitions and have bagged many prizes. Counseling sessions are conducted to improve their academic performance and personality.

The Institution has MOU with different training partners for various capacity building programs. Students are imparted with necessary technical soft skills, communication and computing skills. Career guidance and Counseling programs are conducted for students to help and explore various career options. The institution offers good placement assistance to get jobs in reputed companies and also to pursue higher studies.

Student's safety is of prime importance to the institute. The institute has an anti-ragging committee that ensures the campus has zero ragging cases every year. Also, the anti-sexual harassment committee in the institute ensures the safety & well-being of female students on the campus. Any grievances of students are resolved effectively.

Our Institution has a registered dynamic Alumni Association which contributes to the academics, student support, mobilization of resources and placement assistance. The Alumni Association of institute has been organizing alumni meets regularly to enhance bonding between alumni and institution during last five years.

Governance, Leadership and Management

Governance, Leadership and Management

The Principal is Member Secretary of the Governing Council of the institution and convenes the meeting of Advisory Committee every month, the policy decisions of the advisory committee are considered for implementation. The vision and mission of the institution have been framed in discussions with Internal and External stake holders. Different Committee/Cells are constituted to conduct various activities effectively. The institution promotes decentralization and participative management in most of the activities related to the effective running of the institution.

The institution has deployed perspective plan for Industry readiness and skill enhancement programs for students by signing of MOU's with industries. The Institution has a well structured organizational hierarchy that oversees and supports the decision making. The institution also implemented e-governance in the area of operation.

Different welfare schemes are in practice to support the staff which includes EPF, ESI, salary advances, Medical/Maternity leave etc. On average 20% faculty members have attended Conference/Workshops with financial support and on average 30% of faculty members have attended Professional Development Programs during last five years. The institution organized professional development/administrative training Programs each for teaching and non teaching staff every year. The institution has well defined Appraisal System for staff including teaching & non teaching faculty members.

Tuition fee collected from students is the major source of income. The institution has made budgetary provisions for academic activities and its optimum utilization is monitored through regular audits. Institution has constituted IQAC on 2nd August, 2019 for quality assurance, sustenance and improving academic standard and promoting research activities.

Institutional Values and Best Practices

Institutional Values and Best Practices

Our Institution shows gender sensitivity, provides common room, safety and security in all the premises of the campus for all the staff and students. Energy conservation such as sensor-based energy conservation,use of LED Bulbs and biogas plant are in practice. Appropriate facility is made in the campus to dispose degradable and non-degradable waste generated in the campus to ensure clean and hygiene environment. Water conservation facilities such as rain water harvesting, bore well, tank, waste water recycling and systematic distribution of water are being done in the campus. The institution has adopted one of its best practice to maintain a clean and green campus ambience. Every year, institution conducts environment and energy audit by experts. Disabled friendly environment such as user friendly pathways, ramps, washrooms, signage, assistive technology through open source software, human assistance is made available in the campus. Every year, institution conducts various programs in providing an inclusive environment, human values through induction program, professional ethics through regular curriculum and code of conduct meetings. Institution celebrates national and international commemorative days, events and festivals every year to remind the sacrifices and contribution made by the different personalities.

The two best practices followed in the institution includes: a) Holistic Education for students to develop intellectual, life skills, emotional, social, physical, artistic, creative and spiritual abilities in students. Also to identity, meaning, and purpose in life through connections to the community, to the natural world, and to spiritual values such as compassion and peace. b) Faculty Industry Internship to gain experience for adopting current engineering knowledge and technology in teaching or to apply for any new situations and to understand how actually the classroom learning applies to the industry and to what extent.

A distinctive feature of A Person-A Tree is in practice since the inception to create awareness among the students and staff regarding the importance of ecology and the natural environment to save the endangered environment and to beautify the campus. So far 32 species from 849 major trees have been identified from the surrounding with scores of saplings yet to be tagged as they are still to grow. Auto replenishment of trees is seen and the level of clean air is at its high as is evident.

2. PROFILE

2.1 BASIC INFORMATION

Name and Address of the College	
Name	R. T. E SOCIETY'S RURAL ENGINEERING COLLEGE, HULKOTI
Address	R T E SOCIETYS RURAL ENGINEERING COLLEGE NH63, GADAG HUBLI ROAD HULKOTI
City	HULKOTI
State	Karnataka
Pin	582205
Website	www.rechulkoti.edu.in

Contacts for Communication					
Designation	**Name**	**Telephone with STD Code**	**Mobile**	**Fax**	**Email**
Principal	V M Patil	08372-289253	9448023499	08372-289427	principalrechkt@rediffmail.com
IQAC / CIQA coordinator	M D Harlapur	08372-289097	9448862675	08372-289589	mdhrechulkoti@gmail.com

Status of the Institution	
Institution Status	Private and Self Financing

Type of Institution	
By Gender	Co-education
By Shift	Regular Day

Recognized Minority institution	
If it is a recognized minroity institution	No

Establishment Details

Date of establishment of the college	26-09-1980

University to which the college is affiliated/ or which governs the college (if it is a constituent college)

State	University name	Document
Karnataka	Visvesvaraya Technological University	[View Document](#)

Details of UGC recognition

Under Section	Date	View Document
2f of UGC		
12B of UGC		

Details of recognition/approval by stationary/regulatory bodies like AICTE,NCTE,MCI,DCI,PCI,RCI etc(other than UGC)

Statutory Regulatory Authority	Recognition/Approval details Institution/Department programme	Day,Month and year(dd-mm-yyyy)	Validity in months	Remarks
AICTE	[View Document](#)	02-07-2021	12	

Details of autonomy

Does the affiliating university Act provide for conferment of autonomy (as recognized by the UGC), on its affiliated colleges?	No

Recognitions

Is the College recognized by UGC as a College with Potential for Excellence(CPE)?	No
Is the College recognized for its performance by any other governmental agency?	No

Location and Area of Campus				
Campus Type	**Address**	**Location***	**Campus Area in Acres**	**Built up Area in sq.mts.**
Main campus area	R T E SOCIETYS RURAL ENGINEERING COLLEGE NH63, GADAG HUBLI ROAD HULKOTI	Rural	48.28	18563.57

2.2 ACADEMIC INFORMATION

Details of Programmes Offered by the College (Give Data for Current Academic year)						
Programme Level	Name of Programme/Course	Duration in Months	Entry Qualification	Medium of Instruction	Sanctioned Strength	No.of Students Admitted
UG	BE,Civil Engineering	48	pre university science or equivalent	English	60	14
UG	BE,Computer Science And Engineering	48	pre university science or equivalent	English	60	36
UG	BE,Electronics And Communication Engineering	48	pre university science or equivalent	English	60	7
UG	BE,Mechanical Engineering	48	pre university science or equivalent	English	60	3
UG	BE,Textile Technology	48	pre university science or equivalent	English	30	7
Doctoral (Ph.D)	PhD or DPhil,Computer Science And Engineering	0	master degree	English	4	0
Doctoral (Ph.D)	PhD or DPhil,Mechanical Engineering	0	master degree	English	4	0

Position Details of Faculty & Staff in the College

Teaching Faculty												
	Professor				**Associate Professor**				**Assistant Professor**			
	Male	Female	Others	Total	Male	Female	Others	Total	Male	Female	Others	Total
Sanctioned by the UGC /University State Government				8				17				71
Recruited	8	0	0	8	16	1	0	17	46	21	0	67
Yet to Recruit				0				0				4
Sanctioned by the Management/Society or Other Authorized Bodies				8				17				67
Recruited	8	0	0	8	16	1	0	17	46	21	0	67
Yet to Recruit				0				0				0

Non-Teaching Staff				
	Male	**Female**	**Others**	**Total**
Sanctioned by the UGC /University State Government				51
Recruited	35	14	0	49
Yet to Recruit				2
Sanctioned by the Management/Society or Other Authorized Bodies				49
Recruited	35	14	0	49
Yet to Recruit				0

Technical Staff				
	Male	**Female**	**Others**	**Total**
Sanctioned by the UGC /University State Government				65
Recruited	58	4	0	62
Yet to Recruit				3
Sanctioned by the Management/Society or Other Authorized Bodies				62
Recruited	58	4	0	62
Yet to Recruit				0

Qualification Details of the Teaching Staff

Permanent Teachers										
Highest Qualification	**Professor**			**Associate Professor**			**Assistant Professor**			
	Male	Female	Others	Male	Female	Others	Male	Female	Others	Total
D.sc/D.Litt/ LLD	0	0	0	0	0	0	0	0	0	0
Ph.D.	8	0	0	16	1	0	5	1	0	31
M.Phil.	0	0	0	0	0	0	0	0	0	0
PG	0	0	0	0	0	0	40	21	0	61

Temporary Teachers										
Highest Qualification	**Professor**			**Associate Professor**			**Assistant Professor**			
	Male	Female	Others	Male	Female	Others	Male	Female	Others	Total
D.sc/D.Litt/LLD	0	0	0	0	0	0	0	0	0	0
Ph.D.	0	0	0	0	0	0	0	0	0	0
M.Phil.	0	0	0	0	0	0	0	0	0	0
PG	0	0	0	0	0	0	0	0	0	0

Part Time Teachers										
Highest Qualification	**Professor**			**Associate Professor**			**Assistant Professor**			
	Male	Female	Others	Male	Female	Others	Male	Female	Others	Total
D.sc/D.Litt/LLD	0	0	0	0	0	0	0	0	0	0
Ph.D.	0	0	0	0	0	0	0	0	0	0
M.Phil.	0	0	0	0	0	0	0	0	0	0
PG	0	0	0	0	0	0	0	0	0	0

Details of Visting/Guest Faculties				
Number of Visiting/Guest Faculty engaged with the college?	**Male**	**Female**	**Others**	**Total**
	0	0	0	0

Provide the Following Details of Students Enrolled in the College During the Current Academic Year

Programme		From the State Where College is Located	From Other States of India	NRI Students	Foreign Students	Total
UG	Male	427	3	0	0	430
	Female	251	0	0	0	251
	Others	0	0	0	0	0
Doctoral (Ph.D)	Male	0	0	0	0	0
	Female	0	0	0	0	0
	Others	0	0	0	0	0

Provide the Following Details of Students admitted to the College During the last four Academic Years					
Programme		Year 1	Year 2	Year 3	Year 4
SC	Male	4	10	16	24
	Female	0	2	8	8
	Others	0	0	0	0
ST	Male	1	5	7	5
	Female	2	1	5	3
	Others	0	0	0	0
OBC	Male	34	51	57	97
	Female	23	19	55	48
	Others	0	0	0	0
General	Male	3	7	5	19
	Female	1	1	7	5
	Others	0	0	0	0
Others	Male	0	0	0	0
	Female	0	0	0	0
	Others	0	0	0	0
Total		68	96	160	209

Institutional preparedness for NEP

1. Multidisciplinary/interdisciplinary:	In view of aligning with the NEP and its foundational pillars of equity access, quality, affordability and accountability, the institution strives to implement the true spirit behind this policy thus making the nation vibrant and a global knowledge super power. For this the institution has taken up a flexible and multi-disciplinary inclusive education for all its wards, the following steps are initiated 1. Conduct deliberations to add or revise curriculum within the university ambits. A few objectives are already the vision and mission of departments 2. To develop multi disciplinary areas like artificial intelligence/Machine language, IOT and also additional courses on managerial entrepreneurship and social responsibility is planned 3. To conduct add on/ certificate programs on electromotive engineering and alternate sources of energy across all the programs 4. To increase competencies and capability building in staff members and also to provide staff all support to attend training and workshops Multidisciplinary /interdisciplinary It is proposed to include courses on AI/ ML and IOT across programs irrespective of streams but based on interest of students and choice of electives provided in the curriculum
2. Academic bank of credits (ABC):	Academy Bank of credits Though the guidelines for ABC are laid by the National Education Policy (NEP) mainframe, the institution is awaiting for rules and regulations laid by the affiliating University the Visvesvaraya technological University Belgavi (VTU).
3. Skill development:	Skill development As a definite and positive approach to up skill students, Memorandum of Understanding (MOU) are signed with many startups like indic language lab, HAEGL, lab Tech-fortune
4. Appropriate integration of Indian Knowledge system (teaching in Indian Language, culture, using online course):	Appropriate integration of Indian Knowledge system (teaching in Indian Language,culture, using online course): For students to familiarize with our bygone history and to enrich their knowledge base there is a proposal to teach in the native kannada language
5. Focus on Outcome based education (OBE):	Outcome based education (OBE) Presently focus on teaching learning is Outcome based education (OBE) ,therefore efforts are being made to modify class Internal Assessment (CIE) examination pattern ,assignments and internships to make it outcome based

6. Distance education/online education:	Distance education/Online education The institution is an active member of Visvesvaraya technological University Belgavi (VTU) , e- consortium for sourcing online content and courses. In addition the NPTEL provides online courses and many students register and complete certification.

Extended Profile

1 Program

1.1

Number of courses offered by the Institution across all programs during the last five years

2020-21	2019-20	2018-19	2017-18	2016-17
506	362	365	355	317

File Description	Document
Institutional data prescribed format	View Document

1.2

Number of programs offered year-wise for last five years

2020-21	2019-20	2018-19	2017-18	2016-17
7	6	6	6	6

2 Students

2.1

Number of students year-wise during last five years

2020-21	2019-20	2018-19	2017-18	2016-17
681	788	879	1010	1127

File Description	Document
Institutional data in prescribed format	View Document

2.2

Number of seats earmarked for reserved category as per GOI/State Govt rule year-wise during last five years

2020-21	2019-20	2018-19	2017-18	2016-17
87	105	105	105	105

File Description	Document
Institutional data in prescribed format	View Document

2.3

Number of outgoing / final year students year-wise during last five years

2020-21	2019-20	2018-19	2017-18	2016-17
221	281	213	280	344
File Description		Document		
Institutional data in prescribed format		View Document		

3 Teachers

3.1

Number of full time teachers year-wise during the last five years

2020-21	2019-20	2018-19	2017-18	2016-17
92	95	97	96	96
File Description		Document		
Institutional data in prescribed format		View Document		

3.2

Number of sanctioned posts year-wise during last five years

2020-21	2019-20	2018-19	2017-18	2016-17
92	95	97	96	96
File Description		Document		
Institutional data in prescribed format		View Document		

4 Institution

4.1

Total number of classrooms and seminar halls

Response: 25

4.2

Total Expenditure excluding salary year-wise during last five years (INR in Lakhs)

2020-21	2019-20	2018-19	2017-18	2016-17
100.75	283.78	161.72	264.85	141.59

4.3

Number of Computers

Response: 342

4. Quality Indicator Framework(QIF)

Criterion 1 - Curricular Aspects

1.1 Curricular Planning and Implementation

1.1.1 The Institution ensures effective curriculum delivery through a well planned and documented process

Response:

The Rural Technical Educational Society's, Rural Engineering College (REC) Hulkoti, is an affiliated institution under the Visvesvaraya Technological University (VTU), Belagavi.It has envisaged a vision to create an ambience of academic and knowledge ecosystem to bring out the best in its wards many of whom come from semi urban and rural environment.

The Institution strictly adheres to guidelines given by the University and prepares the calendar of events in line with the University academic calendar. The Principal along with Heads of Department (HOD) decide schedules and draw detailed timetable for teaching, Continuous Internal Evaluation(CIE), tutorials, life skills,Internships, Project phase evaluation, add On/Certificate courses, FDP, Training and Placement activity. Annual co-curricular events like REC Utsav, Shodh- (National level paper presentation), Sports and cultural events are included. For effective implementation of curriculum and to ensure balance between the various engagements a student is supposed to participate, the time table and academic schedules are prepared with care and clarity well in advance and displayed.

The Individual departments strive hard for a better curriculum delivery through a combination of innovative and appropriate teaching plans detailed to be within the available time frame, yet provided with flexibility to accommodate changes. The faculty members are allotted subjects based on areas of specialisation and experience. The teacher develops lesson plans apportioned to syllabus withnecessary resource material,Laboratory manuals and Instruction charts.The HOD reviews the course file of each faculty for adherence to schedule and for the correct CO PO match.

Another important step towards effective curriculum delivery is to assess the students on their understanding levels. Each faculty is assigned mentorship to monitor academic progress.The student feedback is collected,analysed and corrective actions are taken after each CIE as a part of continuous improvement. Remedial classes are planned if necessary to bolster student performance in SEE.The students are encouraged to meet teachers after class hours for doubt –clearance and curriculum discussions.

For the last two academic years, the University has mandated a oneweek Induction program to be conducted for the newly admitted students to various programs. This is to orient students forbetter understanding and learning experience as well as learn lifelong skills on simple living, spirituality and adopt Universal Human Values. Religious heads, Doctors, Alumni, Entrepreneurs and our faculty members are resource persons. The Science and Humanities Department is assigned to co-ordinate the program. A detailed schedule, timetable for sessions, resource persons, and visits are planned at the close of the previous semester.

The recommendation of IQAC for implementation in the teaching-learning process, preparation of resource material, conduct of seminars, projects, assessment through CIE are deliberated in the department meetings and implemented.

The institution is well equipped with necessary ICT facilities at classrooms and laboratories like smart boards, Wi-Fi and good audio -visual equipment. These are extensively used by teachers to make learning an interesting experience. Much attention is paid to experiential learning aspects in the laboratory and Interactive learning is promoted through student participation in group discussions, seminars and quizzes.

File Description	Document
Upload Additional information	[View Document](#)
Link for Additional information	[View Document](#)

1.1.2 The institution adheres to the academic calendar including for the conduct of CIE

Response:

The VTU Academic Calendar is followed for designing the Institution Calendar of Events and Continuous Internal Evaluation (CIE) dates, along with events like Shodh (A National level Paper presentation), workshops, FDP/certificate courses and guest lectures. Co-curricular and sports activities are scheduled in the calendar of events. The cultural events are held under the aegis of the "REC Utsav" which is an inter-collegiate competition. The events are designed to bring out the innate potential in students coming from a rural background ,having lots of inhibitions and a tendency to underperform.

Extempore speech, debates and practical sessions on self-introduction/ background are frequently done in the class room as well as special days to instil confidence and remove stage fear.

Meticulous efforts are made to adhere to the calendar of events and any deviations due to unprecedented circumstances are accommodated by rescheduling to weekends and sometimes holidays too

The department CIE coordinator prepares time table for conduction of C I E and seating arrangement too, well in advance to be displayed on the notice board. Invigilation duty chart is also made.

As per the University guideline, three CIE will be conducted for each semester and all the three tests are to be taken up by the student.

Prior to the CIE, an assignment requiring essay type or paragraph type answers to a set of questions from the portion allotted and that may likely appear in the test is given. A specific date for submission is announced. The assignments are assessed and returned back. This in turn enables students express their observations and understanding of the subject. The assignment exercise improves performance in the ensuing semester end examination.

 The question paper and relevant scheme is prepared keeping in mind the number of CO to be included and the RBT levels

- The Head of Department ensures the question paper is in order with respect to the R B T level and the adherence to the CO-PO match.

- The question paper is handed over to the invigilator on the day of the examination.
- The faculty member then evaluates the answer scripts in accordance to the scheme of valuation and assessment marks is assigned as per University Guidelines for various scheme.
  - For 2018 and the 2017 scheme, CIE and Semester End Examinations (SEE) to carry 60% and 40% respectively.
  - For 2015 scheme CIE and Semester End Examinations (SEE) to carry 80% and 20% respectively.

- The marks list is displayed on the notice board and students presented their answer sheets/books for making known to them the shortfalls in their presentation and mistakes made.
- Analysis of CIE outcome is made and steps initiated for further improvement through counselling and mentoring.
- CIE marks is entered in the consolidated marks list for each semester in the department
- After completion of three CIE, the marks which are the sum of the average of all three CIE and assignment marks are entered by the respective subject teacher using their login credentials in the VTU portal.

File Description	Document
Upload Additional information	[View Document](#)
Link for Additional information	[View Document](#)

1.1.3 Teachers of the Institution participate in following activities related to curriculum development and assessment of the affiliating University and/are represented on the following academic bodies during the last five years

1. **Academic council/BoS of Affiliating university**
2. **Setting of question papers for UG/PG programs**
3. **Design and Development of Curriculum for Add on/ certificate/ Diploma Courses**
4. **Assessment /evaluation process of the affiliating University**

Response: A. All of the above

File Description	Document
Institutional data in prescribed format	[View Document](#)
Details of participation of teachers in various bodies/activities provided as a response to the metric	[View Document](#)
Link for Additional information	[View Document](#)

1.2 Academic Flexibility

1.2.1 Percentage of Programmes in which Choice Based Credit System (CBCS)/ elective course system has been implemented

Response: 85.71

1.2.1.1 **Number of Programmes in which CBCS / Elective course system implemented.**

Response: 6

File Description	Document
Minutes of relevant Academic Council/ BOS meetings	[View Document](#)
Institutional data in prescribed format	[View Document](#)
Link for Additional information	[View Document](#)

1.2.2 Number of Add on /Certificate programs offered during the last five years

Response: 38

1.2.2.1 **How many Add on /Certificate programs are offered within the last 5 years.**

2020-21	2019-20	2018-19	2017-18	2016-17
9	2	9	10	8

File Description	Document
List of Add on /Certificate programs	[View Document](#)
Brochure or any other document relating to Add on /Certificate programs	[View Document](#)
Link for Additional information	[View Document](#)

1.2.3 Average percentage of students enrolled in Certificate/ Add-on programs as against the total number of students during the last five years

Response: 48.6

1.2.3.1 **Number of students enrolled in subject related Certificate or Add-on programs year wise during last five years**

2020-21	2019-20	2018-19	2017-18	2016-17
505	109	483	569	493

File Description	Document
Details of the students enrolled in Subjects related to certificate/Add-on programs	[View Document](#)
Any additional information	[View Document](#)

1.3 Curriculum Enrichment

1.3.1 Institution integrates crosscutting issues relevant to Professional Ethics ,Gender, Human Values ,Environment and Sustainability into the Curriculum

Response:

The University prescribes cross-cutting values and issues relevant to environment, social responsibility, gender equality and ethics be addressed in the curriculum on a continuous basis. It is necessary to create awareness among students and the community at large about the impending threat to our environment and to devise means to promote environment sustainability such as ground water recharge, safe chemical disposing, hygiene and good health, pollution control etc. Women now being equally empowered with education, ample representation in all committees is emphasized, as well as gender equality and gender sensitizing is effectively practiced in the institution.

The VTU has introducedseveral courses like environmental studies(10CIV18/28), Constitution Of India, Professional Ethics And Cyber Law (CPC),Rural Water Supply and Sanitation(10CV666), Pavement Material Construction(10CV763), Industrial waste water Treatment(10CV835), Urban Transport Planning(10CV843), Air Pollution Control(15CV551), Water Resource Management(15/17CV661), Aadalitha Kannada(18KAK28), Vyavaharika Kannada(18KVK28), for the Under Graduation level. These courses are devised to evolve and inculcate Universal Human Values (UHV), for best ethical practices at work and during knowledge transfer too.The students are expected to be socially and morally responsible engineers all through their life, influencing the society in a positive way.

Important aspects like economic sustainability, Conservation of natural resources, biodiversity and pollution control using scientific means, Public health engineering and social security especially after an

unprecedented calamity or pandemic are now an integral part of studies and thereforeaddressed on a wider perspective.

Few courses are explicit in their content like Urban transport planning (17CV751),Water supply and treatment engineering (15/17CV64), Municipal and waste water engineering(15/17CV71), Groundwater and hydraulics(15/17CV752), Water resource management(15/17CV661) for the Civil engineering studies.

Awareness of human rights,directive principles and fundamental rights of citizen, understanding constitution and its practice will lay foundation for engineers to better interface with society. Such courses will help individual student to develop traits like commitment, reliability, integrity and responsible human behaviour while at work place or at home. This will bring about increased productivity and optimisation of use of resources.

Courses in Project Management like Construction Management and entrepreneurship (15/17CV61, 18CV51), Management entrepreneurship and development (15/17ES51, 18ES51) etc. are taught to understand needs of the societyand have good requirement definition. This will result in better development of a project/product. It also helps students become a successful entrepreneur.

The Institution has nearly 40% of female students and faculty. There is ample representation of women on all boards including General Secretary of the students governing bodies which is a gender sensitization practice. This is readily accepted by the student community. Other amenities like safety through surveillance, good sanitation, R O drinking waterare provided as per the University and AICTE guidelines.

International Women's day, World Yoga Dayand Cultural events are also celebrated. Tree plantation, adoption of trees under the banner "One Person -One Tree ", Swach Bharat Abhiyan (on all national days), NSS day and Blood donation on the eve of our founder patron birthday along with health and hygiene camps is organized every year.

File Description	Document
Upload the list and description of courses which address the Professional Ethics, Gender, Human Values, Environment and Sustainability into the Curriculum.	[View Document](#)

1.3.2 Average percentage of courses that include experiential learning through project work/field work/internship during last five years

Response: 57.22

1.3.2.1 **Number of courses that include experiential learning through project work/field work/internship year-wise during last five years**

2020-21	2019-20	2018-19	2017-18	2016-17
295	229	212	182	175

File Description	Document
Programme / Curriculum/ Syllabus of the courses	[View Document](#)
MoU's with relevant organizations for these courses, if any Average percentage of courses that include experiential learning through project work/field work/internship	[View Document](#)
Minutes of the Boards of Studies/ Academic Council meetings with approvals for these courses	[View Document](#)

1.3.3 Percentage of students undertaking project work/field work/ internships (Data for the latest completed academic year

Response: 63.29

1.3.3.1 **Number of students undertaking project work/field work / internships**

Response: 431

File Description	Document
List of programmes and number of students undertaking project work/field work/ /internships	[View Document](#)
Any additional information	[View Document](#)

1.4 Feedback System

1.4.1 *Institution obtains feedback on the syllabus and its transaction at the institution from the following stakeholders 1) Students 2)Teachers 3)Employers 4)Alumni*

Response: A. All of the above

File Description	Document
Action taken report of the Institution on feedback report as stated in the minutes of the Governing Council, Syndicate, Board of Management (Upload)	[View Document](#)
URL for stakeholder feedback report	[View Document](#)

1.4.2 Feedback process of the Institution may be classified as follows: Options:

1.**Feedback collected, analysed and action taken and feedback available on website**
2.**Feedback collected, analysed and action has been taken**

3.Feedback collected and analysed
4.Feedback collected
5. Feedback not collected

Response: A. Feedback collected, analysed and action taken and feedback available on website

File Description	Document
Upload any additional information	[View Document]()
URL for feedback report	[View Document]()

Criterion 2 - Teaching-learning and Evaluation

2.1 Student Enrollment and Profile

2.1.1 Average Enrolment percentage (Average of last five years)

Response: 68.27

2.1.1.1 **Number of students admitted year-wise during last five years**

2020-21	2019-20	2018-19	2017-18	2016-17
109	144	288	363	303

2.1.1.2 **Number of sanctioned seats year wise during last five years**

2020-21	2019-20	2018-19	2017-18	2016-17
300	360	360	360	360

File Description	Document
Institutional data in prescribed format	[View Document]
Any additional information	[View Document]

2.1.2 Average percentage of seats filled against reserved categories (SC, ST, OBC, Divyangjan, etc. as per applicable reservation policy) during the last five years (exclusive of supernumerary seats)

Response: 47.38

2.1.2.1 Number of actual students admitted from the reserved categories year-wise during the last five years

2020-21	2019-20	2018-19	2017-18	2016-17
18	35	61	71	60

File Description	Document
Average percentage of seats filled against seats reserved	[View Document]
Any additional information	[View Document]

2.2 Catering to Student Diversity

2.2.1 The institution assesses the learning levels of the students and organises special Programmes for advanced learners and slow learners

Response:

The institution assesses the learning levels of first year admitted students, prior to commencement of the teaching - learning process. The members of faculty counsel the students soon after the admission and they are categorized as advanced learners and slow learners based on their performance in the qualifying examinations. Subsequently, categorization of students are made based on the performance of students in the Continuous Internal Evaluation. For the higher semesters, the results of lower semester end examinations are considered to categorize the advanced and slow learners.

Advanced Learners:

The best performers of the Semester End Examination are identified as advanced learners. Advanced learners are encouraged and motivated to perform better by providing them with all the support needed. They are advised by the Heads / Faculty of the concerned departments, to achieve better performance in their academics.

Special Programmes for Advanced Learners:

The following special programs are carried out to encourage advanced learners to enhance their overall personality development.

- Motivated them to present papers in National Level Paper Presentation.
- Opportunity is given to become a class representative and student representatives in various committees, which in turn enhances their leadership qualities.
- Encouraged to participate in seminars and workshops.
- Encouraged them to pursue higher studies.

Slow Learners:

The institution has an effective mentoring system to monitor the performance of slow learners. The Faculty in-charge of respective course acts as a guide and counsels the slow learners, identifies the nature of their problems and motivates to perform better. The academic and stress related issues are also addressed during the mentor-mentee meeting. The remedial classes are conducted by respective faculty to enhance their performance.

Special Programs for Slow Learners:

The following special programs are carried out to encourage slow learner to enhance their knowledge, which results in better performance.

- Beyond college hours and study holidays, remedial and additional tutorial classes are conducted for needy subjects.

- Faculty provides question bank.
- Solutions for Numerical problems from University question papers / question bank are provided to enable the students to prepare for semester end examinations.

File Description	Document
Upload any additional information	[View Document](#)
Past link for additional Information	[View Document](#)

2.2.2 Student- Full time teacher ratio (Data for the latest completed academic year)

Response: 7:1

File Description	Document
Any additional information	[View Document](#)

2.3 Teaching- Learning Process

2.3.1 Student centric methods, such as experiential learning, participative learning and problem solving methodologies are used for enhancing learning experiences

Response:

The institution has adopted the following student centric methods to implement an Outcome Based Education through experiential learning, participative learning and problem solving methods for enhancing the learning experience of students.

Internship: Students have to attend the internship between 6th and 7th semester as per the curriculum of Visvesvaraya Technological University (VTU), Belagavi, Karnataka.

Project and Mini project : Students are involved in real time and societal projects in the field of their domains. Some projects are funded by Karnataka State Council for Science and Technology (KSCST).

Seminars: 8th semester students are required to participate and present papers in seminars on recent development in technology, which help them in improving their knowledge, communication and presentation skills.

Innovative Teaching Methodology: Teachers use Information and Communication Technology (ICT) methods, Power Point Presentations, Demonstration models, etc., in the teaching learning process, which enhances learning ability of the students.

Placement Training: The training on HR skills, group discussion, aptitude tests, mock interviews, etc., are provided by Placement Department Cell to enhance overall personality development of students.

Publications: Students are motivated to bring out technical papers in association with faculty so that they are exposed to technical paper writing skills, plagiarism and research ethics.ps

Laboratory - Theory Integration: The theoretical concepts are taught in the class are validated by conducting related experiments and assignments, which enhances participative, experiential and problem solving learning.

File Description	Document
Upload any additional information	[View Document](#)
Link for additional information	[View Document](#)

2.3.2 Teachers use ICT enabled tools for effective teaching-learning process.

Response:

The use of technology in the classrooms provides greater opportunities for effective learning for everyone with different needs. By using technology in our classrooms, both teachers and students have learnt essential skills. Teachers are using different applications or trusted online resources to enhance the traditional ways of teaching and to keep students more engaged. The use of internet has provided our students to access a broad range of resources for conducting research projects, technical seminars, laboratories, online activities, sharing documents, writing and speaking skills, which in turn increases the student involvement.

In order to make the students industry and corporate ready, it is essential for the students to learn and master the latest technologies. As a consequence, faculty are combining technology with traditional mode of instruction to enable the students in long term learning.

Faculty members are encouraged to use power-point presentations in their teaching by using Liquid Crystal Display and projectors. They are also equipped by digital library, online search engines and websites to prepare effective presentations.

Video lecture- Video lectures are made available to students for long term learning and future referencing.

Competitions- Various technical events and Project presentations, paper presentations etc. are being organized with the help of various Information and Communication Tools

Institution uses Information and Communication Technology (ICT) in education to support, enhance and optimize the course knowledge.

Information and Communication Technology Tools used by the Institution

1. Projectors-   Projectors are available in some Classrooms/Laboratories.

2. Desktop-   Arranged at Computer Laboratories and Faculty cabins.

3. Printers-   They are provided at Laboratories, HOD Cabins, College office and Examination section.

4. Photocopier machines -Three in one form of printers are available at   HOD Cabins,   College office and Examination section.

5. Digital facilities - Seminar halls are equipped with all digital facilities.

6. Smart Board- Smart board are installed in some of the classrooms.

7. Online Classes through Zoom, Google Meet, Google Classroom

8. E-resources are available at Digital Library.

9. The faculty members have adopted the latest technology by using the resources such as NPTEL(National Program on Technology Enhanced

Learning), Visvesvaraya Technological University e-learning portal, e-books, technical magazines and journals to keep the students more actively involved in the classroom session.

10. The college has internet and Wi-Fi facility with 80 megabits per second (Mbps) internet band width and with Local Area Network(LAN).

11. The students and faculty have access to information through internet and Wi-Fi with 80 megabits per second (Mbps) bandwidth in the campus including hostels.

File Description	Document
Upload any additional information	View Document
Provide link for webpage describing the ICT enabled tools for effective teaching-learning process	View Document

2.3.3 Ratio of students to mentor for academic and other related issues (Data for the latest completed academic year)

Response: 15:1

2.3.3.1 Number of mentors

Response: 46

File Description	Document
Upload year wise, number of students enrolled and full time teachers on roll.	View Document
mentor/mentee ratio	View Document
Circulars pertaining to assigning mentors to mentees	View Document

2.4 Teacher Profile and Quality

2.4.1 Average percentage of full time teachers against sanctioned posts during the last five years

Response: 100

File Description	Document
Year wise full time teachers and sanctioned posts for 5years(Data Template)	View Document
List of the faculty members authenticated by the Head of HEI	View Document

2.4.2 Average percentage of full time teachers with Ph. D. / D.M. / M.Ch. / D.N.B Superspeciality / D.Sc. / D.Litt. during the last five years (consider only highest degree for count)

Response: 30.91

2.4.2.1 **Number of full time teachers with *Ph. D. / D.M. / M.Ch. / D.N.B Superspeciality / D.Sc. / D.Litt.* year wise during the last five years**

2020-21	2019-20	2018-19	2017-18	2016-17
31	31	29	29	27

File Description	Document
List of number of full time teachers with Ph. D. / D.M. / M.Ch. / D.N.B Superspeciality / D.Sc. / D.Litt. and number of full time teachers for 5 years (Data Template)	View Document
Any additional information	View Document

2.4.3 Average teaching experience of full time teachers in the same institution (Data for the latest completed academic year in number of years)

Response: 14.71

2.4.3.1 **Total experience of full-time teachers**

Response: 1353

File Description	Document
List of Teachers including their PAN, designation, dept and experience details(Data Template)	[View Document](#)
Any additional information	[View Document](#)

2.5 Evaluation Process and Reforms

2.5.1 Mechanism of internal assessment is transparent and robust in terms of frequency and mode

Response:

The Institution is affiliated to Visvesvaraya Technological University (VTU), Belagavi Karnataka and follows the Rules and Regulations prescribed by the university for the Continuous Internal Evaluation (CIE). The student's performance is evaluated through Continuous Internal Evaluation.

Continuous Internal Evaluation 2015 scheme:

The Continuous Internal Evaluation shall be of maximum of **20 marks [15(test) + 05(assignment)]** in each theory and practical courses. CIE marks in each theory course shall be the sum of marks prescribed for test and assignment. CIE test will be conducted for 30 marks and converted to15 marks. Such three CIE test will be conducted and the average of best two test marks will be considered. For every course assignment is evaluated for 5 marks.

For practical Continuous Internal Evaluation of 20 (15 + 05) marks is evaluated based on the conduct of experiments 15 marks and test 05 marks.

Continuous Internal Evaluation 2017 and 2018 scheme:

The Continuous Internal Evaluation shall be of maximum of **40 marks [30(test) + 10(assignment)]** in each theory and practical courses. Each CIE test will be conducted for 50 marks and converted to 30 marks. Such three CIE test will be conducted and the average of all the three test marks will be considered. For every course assignment is evaluated for 10 marks.

For practical course Continuous Internal Evaluation of 40 (30 + 10)   marks is evaluated based on the conduct of experiments 30 marks and test 10 marks.

Mechanism of Continuous Internal Evaluation:

The examination and evaluation are carried out as per the Standard Operating Procedure issued by the Visvesvaraya Technological University (VTU), Belagavi to ensure fair and transparent conduct of Continuous Internal Evaluation. The CIE marks shall be awarded based on performance in the tests.

Continuous Internal Evaluation Process:

The academic calendar of institution is circulated to all the staff and students. The pattern of the question paper, scheme of evaluation for CIE is discussed at the beginning of the semester. The concerned faculty prepares question papers and scheme of evaluation. The IA tests are conducted as per schedule and evaluated as per the scheme. The internal assessment answer scripts are distributed to students in the class after every test and any clarification are carried out instantly and the finalized marks approved by the concerned Head of the Department and Principal are displayed on the notice board.

Robust Assessment:

The Continuous Internal Evaluation is made more robust to enhance students overall performance. For advanced learner portion to be covered for the CIE test will be discussed well in advance along with the important questions by making them aware of course outcomes and blooms taxonomy levels, whereas for slow learners important questions will be discussed and solutions are provided to prepare them to compete with the advance learners.

File Description	Document
Any additional information	[View Document](#)
Link for additional information	[View Document](#)

2.5.2 Mechanism to deal with internal/external examination related grievances is transparent, time-bound and efficient

Response:

The University Rules & Regulations related to Continuous Internal Evaluation tests and possible issues are briefed to all students in the orientation program conducted at the beginning of the every academic year. The circulars and notices related to the conduct of Continuous Internal Evaluation and University examinations, declaration of results, etc., are communicated to all the students on time.

The evaluation of answer scripts of Continuous Internal Evaluation tests will be completed by all the faculty members within the stipulated time as per the instruction from the head of department. The results of Continuous Internal Evaluation tests will be displayed on the respective department notice boards. Students are informed to go through the marks awarded in all the subjects.

If any of the students feel/find discrepancy in the awarded marks he /she can approach the concerned faculty in charge within three days from the date of announcement of Continuous Internal Evaluation test results. The students are given all the freedom to discuss their grievance with the respective faculty member in person. The faculty member redresses the student grievances at his level if his/her grievance is found genuine.

On the next level, if the student grievance is not redressed at the respective faculty level, then the student shall meet the HOD and then the Principal for grievance redressal.

For this purpose a student grievance register is maintained in each and every department of the Institution. Students register their grievance stating clearly the discrepancy as noticed by him/her.

The grievances are registered and redressed at the department level on the same day or next working day depending upon the severity of the student grievance. Any of the student grievances if it is not redressed at the department level, goes to the HOD/Principal level, most of the time it will require more time for its redressal usually 4 to 5 working days.

Most of the Continuous Internal Evaluation related grievances are about the awarded marks. Each and every grievance of a student is redressed to the extent that he/she will feel satisfied.

File Description	Document
Any additional information	[View Document](#)
Link for additional information	[View Document](#)

2.6 Student Performance and Learning Outcomes

2.6.1 Programme and course outcomes for all Programmes offered by the institution are stated and displayed on website and communicated to teachers and students.

Response:

The institution has adopted the Outcome Based Education (OBE) in its teaching, learning and evaluation process and strives for continuous improvement. The Program Outcomes (POs) as defined by National Board of Accreditation (NBA) are common for all programs across departments. The Program Specific Outcomes (PSOs) are framed by the respective department through brain storming sessions in the department, before this consultation with alumni and the stakeholders is done. The Course Outcomes (COs) are written by the respective faculty member handling the course. However faculty may retain the same COs in the syllabus. Consequently, Program Outcomes, Program Specific Outcomes and Course Outcomes for all the programs offered by the institution are stated and displayed on the college website-department wise, from the first year to the fourth year are accessible to teachers, students and other stakeholders.

Mechanism of Communication

While addressing the students, the HODs create awareness on POs, PSOs and COs. The faculty members, class teachers, mentors, course coordinators, program coordinators also inform the students and create awareness and emphasize the need to attain the outcomes. The Program Outcomes and Program Specific Outcomes are briefed to thestudents at the beginning of the semester. The Course Outcomes are briefed by individual course teacher in the first few classes at the beginning of the semester.

The syllabus for each program is designed by the University and the institution adheres to it. It contains, the course objectives and outcomes for each course. The copy of syllabus is made available to students as well as faculty in the library both in hard and soft form.

In addition, the teachers and students of the institution are made familiar to Program Outcomes, Program Specific Outcomes and Course Outcomes in the following ways:

- College Website
- Curriculum/regulations books
- Department Notice Boards
- Laboratories
- Student Induction Programs
- Meetings/ Interactions with employers
- Parent meet
- Faculty meetings
- Alumni meetings
- Professional Body meetings
- Library
- CIE Question Paper
- Prints in CIE Booklets
- Prints in Assignment Booklets

Program Outcomes, Program Specific Outcomes and Course Outcomes for all the programs offered by the institution are available in the website of the institute. The PSOs of the programme are published at individual Department site located on the college website https://rechulkoti.edu.in/ . The Pos and COs of the courses are also published at the website located on the college website: https://rechulkoti.edu.in/program-outcomes/ In all the interactions with the students, awareness on POs, PSOs and COs is consciously promoted.

File Description	Document
Upload COs for all Programmes (exemplars from Glossary)	[View Document](#)
Upload any additional information	[View Document](#)
Past link for Additional information	[View Document](#)

2.6.2 Attainment of programme outcomes and course outcomes are evaluated by the institution.

Response:

The Program Outcomes (POs) and Program Specific Outcomes (PSOs) are accomplished through curriculum. Course Outcomes (COs) are defined for each course and they are mapped to POs and PSOs. The result of CO attainment will be used to evaluate the attainment of Programme Outcomes and Program Specific Outcomes.

Following are the different methods for Assessment, Evaluation and Measurement of POs/PSOs.

Direct Assessment methods:

1. Continuous Internal Assessment (CIE)

Frequency: Thrice in a Semester

The Internal Assessment marks shall be based on three tests in each semester. It is used to continuously assess the attainment of CO.

1. Semester End Examination (SEE)

Frequency: Once in a Semester

It is a descriptive question. As SEE question paper is set by the university its mapping Cos are not mentioned. Hence equal weightage is given for the entire COs.

1. Assignments

Every student is assigned with course related tasks & assessment will be done based on their performance.

Indirect Assessment methods:

1. Programme Exit survey: This survey taken from the final year students at the completion of their programme stands as the comprehensive feedback for the PO/PSO assessment
2. Course Exit Survey: Frequency: Once in a Semester. Information is collected on course outcomes from the students after learning entire course.

COs are assessed through CIE, Assignment & SEE. The COs are mapped against each question and CO analysis is carried out by faculty for each course and documented. The contribution of COs is assessed in high [3], moderate [2] and low [1] levels towards the attainment of POs/PSOs.The process of attainment of COs, POs and PSOs starts with writing appropriate COs for each course of the program for all semesters. The course outcomes are written by the respective faculty member and also faculty may retain the same CO defined in the syllabus or modify if necessary.

Setting targets for CO

Target is set for each course (on the basis of predicting present student performance and previous experience). Target for each course is reviewed and approved by HOD. The attainment levels are set by the HOD in consultation with staff and is uniform for all the courses in the program. The outcome of the CO attainment is used to improve the teaching - learning process. If the set target is achieved, then the Course Outcomes are attained. Further, higher target is set for the subsequent years as part of continuous improvement. If the target is not achieved, then an action plan is initiated to take necessary action to attain the target.

The weightages given for various assessment tools used for the attainment of CO are shown below

	Internal Tools (40%)	1. Continuous Internal Assessment / Seminar/ Internship/Project (80%)

		1. Assignment (20%)	
Direct Assessment Methods (80%)	External Tools (60%)	1. Semester End Examination	
Indirect Assessment Methods: (20%)	Indirect Tools	1. Programme – Exit survey	
		1. Course Exit Survey	

File Description	Document
Upload any additional information	View Document
Paste link for Additional information	View Document

2.6.3 Average pass percentage of Students during last five years

Response: 94.74

2.6.3.1 **Number of final year students who passed the university examination year-wise during the last five years**

2020-21	2019-20	2018-19	2017-18	2016-17
221	281	190	258	315

2.6.3.2 **Number of final year students who appeared for the university examination year-wise during the last five years**

2020-21	2019-20	2018-19	2017-18	2016-17
230	284	198	290	336

File Description	Document
Upload list of Programmes and number of students passed and appeared in the final year examination (Data Template)	<u>View Document</u>
Upload any additional information	<u>View Document</u>
Paste link for the annual report	<u>View Document</u>

2.7 Student Satisfaction Survey

2.7.1 Online student satisfaction survey regarding teaching learning process

Response: 3.82

File Description	Document
Upload database of all currently enrolled students (Data Template)	<u>View Document</u>
Upload any additional information	<u>View Document</u>

Criterion 3 - Research, Innovations and Extension

3.1 Resource Mobilization for Research

3.1.1 Grants received from Government and non-governmental agencies for research projects, endowments, Chairs in the institution during the last five years (INR in Lakhs)

Response: 174.36

3.1.1.1 **Total Grants from Government and non-governmental agencies for research projects , endowments, Chairs in the institution during the last five years (INR in Lakhs)**

2020-21	2019-20	2018-19	2017-18	2016-17
25.09	19.10	27.18	18.09	84.901

File Description	Document
List of endowments / projects with details of grants	[View Document](#)
e-copies of the grant award letters for sponsored research projects / endowments	[View Document](#)
Any additional information	[View Document](#)

3.1.2 Percentage of teachers recognized as research guides (latest completed academic year)

Response: 4.35

3.1.2.1 **Number of teachers recognized as research guides**

Response: 4

3.1.3 Percentage of departments having Research projects funded by government and non government agencies during the last five years

Response: 50

3.1.3.1 **Number of departments having Research projects funded by government and non-government agencies during the last five years**

2020-21	2019-20	2018-19	2017-18	2016-17
4	3	3	3	2

3.1.3.2 **Number of departments offering academic programes**

2020-21	2019-20	2018-19	2017-18	2016-17
6	6	6	6	6

File Description	Document
Supporting document from Funding Agency	[View Document]
List of research projects and funding details	[View Document]
Any additional information	[View Document]
Paste link to funding agency website	[View Document]

3.2 Innovation Ecosystem

3.2.1 Institution has created an ecosystem for innovations and has initiatives for creation and transfer of knowledge

Response:

The institute has created and initiated following activities to promote innovations in the campus.

Grants from Karnataka State Council For KSCST Using the Biofuel/Alternative fuel from Honge, Honne, Jatropa, Sunflower, Tumba, Thevesia, Algea is received.

The Computerized Variable Compression Ratio (Engine set-up) is installed to study the performance and combustion characteristics of the Biodiesel blends produced in the Laboratory. The Five-Gas exhaust gas Analyzer and Smoke meter is installed to study the effect of emission.

Similarly Departments of Electronics and Communication, Civil Engineering as well as Department of Textile Technology were sanctioned the grants from government of Karnataka to the tune of nearly Rs.90 Lakhs and other departments Rs. 74 Lakhs from non-government organizations for the projects carried out by our students over a period of 5 years from 2016-17 to 2020-21.

Research platform: Departments of Mechanical Engineering, Computer Science and Engineering have been recognized as research centers by Visvesvaraya Technological University, Belagavi from the academic year 2020-21. The college has entered into an e-consortium with Visvesvaraya Technological University, Belagavi for online subscription of scientific journals published by Elsevier, Taylor & Francis, Springer, IEEE-Xplorer and IETE. To initiate incubation activities at the campus, our college has established a **Technology Innovation Laboratory** of new age learning eco-system for encouraging startups, with an aim to provide a platform for training the students to convert their ideas into a startup. This will also enable them to offer jobs.

This learning ecosystem is also used to impart competencies and skills on latest technologies which makes them job ready. In this regard MOU's have been signed with leading technology provided namely INDIC LANGUAGE STARTUP, Anusaarak Lab, HAEGL TECHNOLOGIES Pvt. Ltd. an intelligent software development company for application of intelligent robot in healthcare, agriculture etc. and TECH FORTUNE Bengaluru for students skill up gradation, internship and placement training.

Vision Group on Science and Technology (VGST), Ministry of IT and BT, Government of Karnataka has catalyzed and promoted "Improvement in the infrastructure of laboratories in Higher educational institutions" for innovation.

Department of Mechanical Engineering has received a grant of Rs. 20 Lakhs for the infrastructure development in Material Testing Laboratory from Vision Group on Science and Technology (VGST), Ministry of IT and BT, Government of Karnataka. This grant was utilized to provide the lab equipments not only as per the VTU Syllabus and also to provide testing facilities to conduct research work in the area of Tribology of metals and composites in dry as well as lubricated conditions. This platform helps the research scholars in our Institution as well as from nearby Institutions in carrying out work in the field of Tribology, Mechanical Engineering, Materials study etc.

Our Institution encourages the members of the teaching staff to attend the conferences and seminars at the national and international levels to present papers as well as publish them. We conduct state and national level seminars as well as workshops for the students. This provides a platform for the students to exhibit their presentation skills and innate potentials.

File Description	Document
Upload any additional information	[View Document](#)
Paste link for additional information	[View Document](#)

3.2.2 Number of workshops/seminars conducted on Research Methodology, Intellectual Property Rights (IPR) and entrepreneurship during the last five years

Response: 71

3.2.2.1 **Total number of workshops/seminars conducted on Research Methodology, Intellectual Property Rights (IPR) and entrepreneurship year-wise during last five years**

2020-21	2019-20	2018-19	2017-18	2016-17
15	16	14	14	12

File Description	Document
Report of the event	View Document
List of workshops/seminars during last 5 years	View Document
Any additional information	View Document

3.3 Research Publications and Awards

3.3.1 Number of Ph.Ds registered per eligible teacher during the last five years

Response: 0.5

3.3.1.1 **How many Ph.Ds registered per eligible teacher within last five years**

Response: 2

3.3.1.2 **Number of teachers recognized as guides during the last five years**

Response: 4

File Description	Document
List of PhD scholars and their details like name of the guide , title of thesis, year of award etc	View Document

3.3.2 Number of research papers per teachers in the Journals notified on UGC website during the last five years

Response: 2.49

3.3.2.1 **Number of research papers in the Journals notified on UGC website during the last five years.**

2020-21	2019-20	2018-19	2017-18	2016-17
76	36	51	37	37

File Description	Document
List of research papers by title, author, department, name and year of publication	View Document
Any additional information	View Document

3.3.3 Number of books and chapters in edited volumes/books published and papers published in

national/ international conference proceedings per teacher during last five years

Response: 0.21

3.3.3.1 **Total number of books and chapters in edited volumes/books published and papers in national/ international conference proceedings year-wise during last five years**

2020-21	2019-20	2018-19	2017-18	2016-17
3	2	7	5	3

File Description	Document
List books and chapters edited volumes/ books published	[View Document](#)
Any additional information	[View Document](#)

3.4 Extension Activities

3.4.1 Extension activities are carried out in the neighborhood community, sensitizing students to social issues, for their holistic development, and impact thereof during the last five years.

Response:

R.T.E.Society's, Rural Engineering College, Hulkoti has made tremendous endeavour to cater students from rural community of diverse caste, creed and religion. The institution is taking various initiatives to enhance the quality of life of people encompassing them. It exhorts all the students to be a part of representing several social issues through parallel activities.

The NSS students take a lead role in organizing extension activities for the upliftment of the society at large in the form of Blood donation Camp, International Yoga day, Sadh Bhavana Diwas, Swatch Bharath Abhiyana, Save Water and Save Earth etc.

Founder's day is celebrated at R.E.C, Hulkoti on 16th March every year by faculty members and students with great enthusiasm in order to commemorate the birthday of founder chairman Shri. K.H.Patilji for his contributions and development towards rural people of India. On this day Blood Donation camp is arranged in collaboration with Red Cross at college premises by NSS unit.

Swatch Bharath Abhiyana is organized by NSS unit to make it plastic free which covers activity points for the award of degree for the students as per AICTE circular.

Institution is taking utmost care on neighborhood in terms of basic needs and other relevant needs of the society. NSS unit has organized flood relief campaign at Hulkoti village on 21st August 2019 and collected amount for the flood victims and also a day's salary of each faculty is donated. A sum of Rs 5 lakh cheque is handed over to District Collector, Gadag in presence of college Management , Principal and others.

These outreach and extension activities have made students socially aware of several socioeconomic and cultural problems affecting the lives of people. The event, Innovative ways for spreading the message of Hygiene was conducted on the occasion of Gandhi Jayanti, October 2nd. Students visited a nearby village Asundi and educated the people of the village towards keeping the surroundings clean was been conducted through the NSS coordinators. "Say No to Plastics" awareness was created in a nearby village Dundur in association with NSS unit on the occasion of Gandhi Jayanthi 02nd , October. Students campaigned in the form of poster presentation.

International women's day is celebrated on 8th march to highlight the importance of women's contribution to the society, sensitization of gender equality and respect for women. Dr. Savita Hombali Gynecologist of Rural Medical Service, Hulkoti addressed regarding the woman concerns. The outcome of these specific initiatives is for the promotion of women's development not only for the students but for faculty as well.

World environment day is observed on 5th June, every year by planting the saplings in and around the campus, to make it green campus. Bike rally awareness program was organized for getting the awareness among local people for wearing helmet on 26th January 2020.

COVID -19 Vaccination drive was arranged on 3rd and 10th July, 2021 in association with district health and family department, Hulkoti , for staff, students and public were 405 of them were vaccinated.

File Description	Document
Upload any additional information	[View Document](#)
Paste link for additional information	[View Document](#)

3.4.2 Number of awards and recognitions received for extension activities from government/ government recognised bodies during the last five years

Response: 21

3.4.2.1 **Total number of awards and recognition received for extension activities from Government/ Government recognised bodies year-wise during the last five years.**

2020-21	2019-20	2018-19	2017-18	2016-17
2	4	8	6	1

File Description	Document
Number of awards for extension activities in last 5 year	View Document
e-copy of the award letters	View Document
Any additional information	View Document

3.4.3 Number of extension and outreach programs conducted by the institution through NSS/NCC, Government and Government recognised bodies during the last five years

Response: 60

3.4.3.1 **Number of extension and outreached Programmes conducted in collaboration with industry, community and Non- Government Organizations through NSS/ NCC/ Red Cross/ YRC etc., year-wise during the last five years**

2020-21	2019-20	2018-19	2017-18	2016-17
11	13	12	16	8

File Description	Document
Reports of the event organized	View Document
Number of extension and outreach Programmes conducted with industry, community etc for the last five years	View Document
Any additional information	View Document

3.4.4 Average percentage of students participating in extension activities at 3.4.3. above during last five years

Response: 88.27

3.4.4.1 **Total number of Students participating in extension activities conducted in collaboration with industry, community and Non- Government Organizations such as Swachh Bharat, AIDs awareness, Gender issue etc. year-wise during last five years**

2020-21	2019-20	2018-19	2017-18	2016-17
609	726	825	822	953

File Description	Document
Report of the event	
Average percentage of students participating in extension activities with Govt or NGO etc	
Any additional information	

3.5 Collaboration

3.5.1 Number of Collaborative activities for research, Faculty exchange, Student exchange/ internship per year

Response: 184

3.5.1.1 **Number of Collaborative activities for research, Faculty exchange, Student exchange/ internship year-wise during the last five years**

2020-21	2019-20	2018-19	2017-18	2016-17
73	55	54	1	1

File Description	Document
e-copies of related Document	
Details of Collaborative activities with institutions/industries for research, Faculty exchange, Student exchange/ internship	
Any additional information	

3.5.2 Number of functional MoUs with institutions, other universities, industries, corporate houses etc. during the last five years

Response: 23

3.5.2.1 **Number of functional MoUs with Institutions of national, international importance, other universities, industries, corporate houses etc. year-wise during the last five years**

2020-21	2019-20	2018-19	2017-18	2016-17
8	1	8	3	3

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File Description	Document
e-Copies of the MoUs with institution/ industry/corporate houses	View Document
Details of functional MoUs with institutions of national, international importance, other universities etc during the last five years	View Document
Any additional information	View Document

Criterion 4 - Infrastructure and Learning Resources

4.1 Physical Facilities

4.1.1 The Institution has adequate infrastructure and physical facilities for teaching- learning. viz., classrooms, laboratories, computing equipment etc.

Response:

The Rural Technical Education Society's, Rural Engineering College (REC), Hulkoti was established in the year 1980. The College is approved by AICTE, New Delhi and affiliated to Visvesvaraya Technological University Belagavi (VTU).The institution is spread over 48.28 acres of land with built up area of 18,563.57 sq mt., including Hostel areas for Boys of 2,871.81 sq mt., ladies Hostel of area 989.58 sq mt., and library with an area of 510.00 sq mt.

With respect to the infrastructure, the college has received 'NIL-*deficiency'* report by the AICTE New Delhi and VTU Belagavi consecutively for five years.

Normal Classroom:

There are ten normal classrooms, with an average area of 66.00 sq mt. The classrooms are Wi-Fi enabled and provided with sufficient number of student Desks, Ceiling fans and LED Tube lights.

ICT-Enabled Classroom:

The College has 8 ICT-enabled classrooms with an average area of 130.00sq.mt. And are equipped with LCD Projectors and Computers with Internet facility. This facility is also used for conducting Seminars and Guest Lectures.

Smart Classroom:

The smart classrooms are enabled with modern-day pedagogy methods to meet the current trends of teaching and learning. Four smart class rooms with an average area of 71.00sq.mt.andare equipped with Smart-Interactive-Boards, Computers with Internet facility.

Tutorial Classroom:

The College has Five Tutorial Classrooms, with an average area of 44.00 sq mt. The tutorial classrooms are Wi-Fi enabled and provided with sufficient number of student Desks, Ceiling fans and LED Tube lights.

Seminar Hall:

The College has 3 seminar halls with an average area of 115.00 sq mt., one with 120 Seating capacity and the other two with 80 seats each. Each seminar hall has been provided with public address system, LCD Projector and computers with Internet facility.

Laboratories:

The institution has 42Laboratorieswith an average area of120.00 sq mt., and equipped with machines and computer systems to conduct experiments as per the VTU curriculum.

Central Computer Centre:

The Central Computing Centre is located in the admin block with an area of 150.00 sq mt. It has sufficient number of internet enabled Desktop machines with open source Linux environment to learn different programming languages. This facility supports for conducting programs such as, training, short term courses, technical work shops, Online Examination etc.

Workshop

The College has a workshop(Machine Shop) of area 204.00 sq mt. and additional workshop of area 200 sq mt. (Foundry and Forging), which comprises of carpentry, welding, soldering and forging facilities. This facility is used by the students for fabrication related projects.

Computing Equipment:

The College has 342 Computer systems, 5 laptops, 23 printers, and 2photo-copiersin the campus to carry outall academic and administrative tasks with adequate internet facility with a bandwidth of 70+10 Mbps from MahaMedia.com Private Limited & BSNL Leased Line (ILL) respectively. A total of 80kVA Power back up (Generators) facility exists in the institution of which 50kVA for college campus, 20 kVA for boys Hostel and 10 kVA for girls Hostel.

Surveillance System:

The entire College campus including hostels is under CCTV surveillance with 116 Cameras.

File Description	Document
Upload any additional information	[View Document](#)
Paste link for additional information	[View Document](#)

4.1.2 The Institution has adequate facilities for cultural activities, sports, games (indoor, outdoor), gymnasium, yoga centre etc.

Response:

Cultural Activities:

The institution is having three seminar halls for conducting extra-curricular activities. Students are encouraged to participate in the cultural events organized by the college like Technical fest, Fresher's day, Annual Sports Day, Annual Day and Farewell. Students participate in inter-collegiate competitions like Dance, Skit, Mimicry, and Paper Presentation. Cash awards and mementoes are sponsored by the college.

The College organizes a three-day Annual day fest "**REC Utsav**" providing platform for the students to exhibit their skills in Quiz, Paper Presentation, Treasure Hunt, Debate, Coding & De-bugging, Dance Skit, Drama, Mime, One Act Play, Singing, Drawing, Face Painting, Poster Making and Short Movie Making. The institution makes provision for

- Stage with LCD screen
- Classrooms are provided with audio visual facility.
- Open air theatre.

Sports:

The institution is having an area of 53,562.80 sq mt. for outdoor games and 90.00sq mt., areas for indoor games. A qualified physical education director looks after all sports activity. All requirements for both Indoor and Outdoor Sports like Chess, Table Tennis, Carom, Basketball, Cricket, Football, Netball, Hockey, Volleyball and 200m Athletic Track are provided.

Outdoor facilities

Sl. No	Sports	Area sq mt.	Year of establishment	User Rate
1	Cricket	22,746.8	1981	Intramurals sports activities
2	Volley Ball	162	1981	Intramurals and Intercollegiate sports activities
3	Basket Ball	436.24	1981	Intramurals sports activities
4	Throw Ball	223.26	1981	Intramurals sports activities
6	Kabaddi	130	1981	Intramurals and Intercollegiate sports activities
7	Hockey	5,027	1981	Intramurals sports activities
8	Kho-Kho	570	1981	Intramurals sports activities
9	Football	24257.5	1981	Intramurals e sports activities

Indoor facilities

SN	Game Name	Total Area sq mt.	Year of Establishment	User Rate
1	Table tennis	90.00	2008-09	Intramurals sports

				activities
2	Carom Board			Intramurals sports activities
3	Chess board			Intramurals sports activities
4	Billiards Court			Intramurals sports activities

The Sports department conducts an intra-departmental competition during the Annual day celebration. Sponsorships for students to participate in intra and inter zonal VTU sports events are made available. Professional coaching is provided for sports like Cricket and Basket Ball. To build camaraderie, a cricket match is played between staff and students.

Gymnasium & Yoga:

'*A healthy mind resides in a healthy Body'***,** the Institution believes in this adage. There are all adequate facilities for building a good physique in the gymnasium located besides the college canteen in a 100.00sq mt. enclosure. The multi workstation exposes students to various exercises that will enhance their overall development, fitness and endurance power. Apart from these a parallel bar facility enables students for general physical exercises.

Yoga is always an ongoing activity in the campus. Yoga incorporates breathing exercise, meditation and postures designed for increased relaxation and to reduce stress. Practicing yoga is said to come with many benefits for both mental and physical health of the students and teaching community. Institution invites Yoga Practitioners to train the students from time to time.

File Description	Document
Upload any additional information	[View Document](#)
Paste link for additional information	[View Document](#)

4.1.3 Percentage of classrooms and seminar halls with ICT- enabled facilities such as smart class, LMS, etc. *(Data for the latest completed academic year)*

Response: 60

4.1.3.1 Number of classrooms and seminar halls with ICT facilities

Response: 15

File Description	Document
Upload Number of classrooms and seminar halls with ICT enabled facilities (Data Template)	View Document
Upload any additional information	View Document
Paste link for additional information	View Document

4.1.4 Average percentage of expenditure, excluding salary for infrastructure augmentation during last five years(INR in Lakhs)

Response: 41.74

4.1.4.1 **Expenditure for infrastructure augmentation, excluding salary year-wise during last five years (INR in lakhs)**

2020-21	2019-20	2018-19	2017-18	2016-17
56.34	150.75	64.66	129.22	15.42

File Description	Document
Upload Details of budget allocation, excluding salary during the last five years (Data Template)	View Document
Upload audited utilization statements	View Document
Upload any additional information	View Document

4.2 Library as a Learning Resource

4.2.1 Library is automated using Integrated Library Management System (ILMS)

Response:

Name of ILMS Software	New Gen Lib	KOHA (ILMS)	
Nature of Automation Fully or Partially	Fully	Fully	
Version	16.2	19.05.07	
Year of Automation	2009	2021	

Library and Information Centre:

The institution has library with "KOHA" Barcode software-version 19.05.07 (Open Source) used for acquisition, cataloguing, circulation, procurement of books, serial control modules and Online Public Access Catalog (OPAC). All the Books are bar-coded and books are issued to users by reading the barcode reader.

ILMS software: KOHA Barcode software-version 19.05.07 Open source

Nature of automation : Fully Automated

Version : 19.05.07

Year of Automation : 2021

Features of "KOHA" Barcode Software

KOHA" Barcode software-version 19.05.07: Library Software

"KOHA" Barcode software-version 19.05.07 is an absolute user - friendly software.

It is a simplified package, which requires maximum user interaction and features interactive data handling for storing backup etc.

"KOHA" Barcode software-version 19.05.07 is easy and effective software for maintenance of books, journals and users. The system finds the status of books or users automatically and eases the circulation process accordingly.

It contains enhanced, simplified search facility which can locate books and identify users effectively through OPAC Cataloguing module facility of the software helps for catalogue books, articles, and publications. Institution has Integrated Library Management System (ILMS) used for statistical analysis required for library management system such as weekly transactions, most issued items, less issued items, most book borrowed user etc.

The Acquisition module is utilized for generating accession register reports, adding student record, updating item lending policy and its status. Dedicated staff members take care of the issue/return desk, reading room section, reference section and digital library.

SC/ST Book Bank Facility:

The Library has book bank facility for SC/ST students, from which students can borrow .

Digital Library URL: http://117.239.57.115

Library OPAC: Remote access gateway for online e-resources subscribed through VTU Consortium: https://.knimbus.com/user#/home

The institution library is equipped with books for Competitive Exams, Personality Development, Quantitative Aptitude, Hand Books, Kannada language Books and Spiritual Books. Separate stacking racks are maintained for Books, Magazine and Newspaper.

Area and Capacity

The institution has a voluminous library which serves as a knowledge center. It is accommodated in a spacious building of 510.00sq mt. There is a reading hall with 100seating capacity.

Library is open for users from 9am to 8pm.There are separate sections for reference, circulation and Newspapers.

Collection

The library has a rich collection of 61,629 volumes of books comprising 28,999 titles. The Digital Library with 10 systems provides on-line access to e-resources, VTU-NPTEL e-Learning with 4TB of offline video lectures. There are E-books and 20,439 e-Journals on various branches of Engineering, Science, Technology and Management along with 36 National and International Printed Journals. A total of 705 old journals are bound as back volume. Project reports of final year students are maintained in the respective

File Description	Document
Upload any additional information	[View Document](#)
Paste link for Additional Information	[View Document](#)

4.2.2 The institution has subscription for the following e-resources

1. e-journals
2. e-ShodhSindhu
3. Shodhganga Membership
4. e-books
5. Databases
6. Remote access to e-resources

Response: A. Any 4 or more of the above

File Description	Document
Upload any additional information	[View Document](#)
Details of subscriptions like e-journals, e-ShodhSindhu, Shodhganga Membership , Remote access to library resources, Web interface etc (Data Template)	[View Document](#)

4.2.3 Average annual expenditure for purchase of books/e-books and subscription to journals/e-journals during the last five years (INR in Lakhs)

Response: 9.68

4.2.3.1 **Annual expenditure of purchase of books/e-books and subscription to journals/e- journals year wise during last five years (INR in Lakhs)**

2020-21	2019-20	2018-19	2017-18	2016-17
6.8	10.24	12.35	10.03	9.00

File Description	Document
Details of annual expenditure for purchase of books/e-books and journals/e- journals during the last five years (Data Template)	View Document
Audited statements of accounts	View Document
Any additional information	View Document

4.2.4 Percentage per day usage of library by teachers and students (foot falls and login data for online access) during the latest completed academic year

Response: 31.05

4.2.4.1 Number of teachers and students using library per day over last one year

Response: 240

File Description	Document
Details of library usage by teachers and students	View Document
Any additional information	View Document

4.3 IT Infrastructure

4.3.1 Institution frequently updates its IT facilities including Wi-Fi

Response:

The Institution regularly upgrades IT facility including Wi-Fi facility. The total number of computers on network is 342 and the numbers of printers are 23. The institution is having 22 applications software such as Auto CAD, Mat lab, CNC, Oracle. Along with 3 licensed systems software. There is an internet facility with Bandwidth of 80(70+10) Mbps, by BSNL and Maha-media.com. The campus network is of 22 Wi-Fi access points (HP &D link) across the campus.

There is optical fiber cable connectivity for all labs. Four Hard-disks with storage capacity of total 16 TB with 502 NPTEL videos content and 433 web contents are made accessible to the students and staff. The College campus including Boys & Ladies Hostel is under the CCTV surveillance with 116 Cameras and 09 DVR. The Classrooms, seminar halls are equipped with LCD projectors and Wi-Fi facility to train the students and teachers through FDP, Workshops and Webinars.

Bandwidth Up gradation Details:

Academic Year	Bandwidth Support	Nature of Connection
2020-21	70+10 Mbps	Leased Line with 1:1
2019-20	50 Mbps	
2018-19	50 Mbps	Connection ratio over OFC
2017-18	50 Mbps	
2016-17	50 Mbps	

Details of Computer Systems					
Processor	HCL Pentium 4 1.8/2.27/2.66/3.20 GHZ	HCL PDC 2.9/2.7 GHZ	HCL PDC 2.8GHZ	Core i5	Xeon Core i7
Quantity	100	140	75	01	01
Configuration	RAM:128/ 256/512 MB/40/80GB,:	RAM:2GB- HDD: 500GB 18.5" TFT Monitor + UPS	RAM:2GB DDR2 HDD: 320GB 18.5" HCL Monitor + UPS	RAM:4GB- HDD: 01TB 19.5" Monitor (Examination section)	RAM:8GB-8GB HDD: 01TB Graphics Card -2G 18.5" Monitor
Total number of Computers = 342					

Details of Laptops			
Processor	Core i3	Core i5	Core i5
Quantity	01	02	02

15-05-2022 10:04:39

Configuration	HP LAPTOP	DELL INS 5379	MAC PRO
	15.6-inch/33.78 cm, 4GB RAM, 256GB SSD, 1.4GHz Quad-core *7th*-Generation Intel	13.3-inch/33.78 cm, 8GB RAM, 256GB SSD, 1.4GHz Quad-core *8th*-Generation Intel	8th Gen Intel Core i7-8550U/16GB/512GB/Win UHD Graphics 620

SL No	Types of printer	Quantity
1	HP Laser jet M1005	03
2	Samsung Laser jet	05
3	Brother Smart Printer	03
4	Canon LCB2900V Laser jet	09
5	Epson Color printer	01
6	HP 1020 Laser jet	02
	Total no of printers	**23**

SL No	Type of photocopier	Quantity
1	Sharp photocopier	**02**

System Software		
SL. No	Particular	Quantity
1	Windows 98	**01**
2	Windows 8.1 Pro	**10**
3	Windows 10 Pro	**83**

Details of Networking		
SL. No	Particular	Quantity
1	HP Pro-curve wireless access point 10AG	22
2	CISCO 2811 router	01
3	Cyber Rome CR 100ia Firewall	01
4	Firewall Sophos XG-135UTM	01

File Description	Document
Upload any additional information	[View Document](#)
Paste link for additional information	[View Document](#)

4.3.2 Student - Computer ratio (Data for the latest completed academic year)

Response: 2:1

File Description	Document
Upload any additional information	[View Document](#)
Student – computer ratio	[View Document](#)

4.3.3 Bandwidth of internet connection in the Institution

Response: A. ?50 MBPS

File Description	Document
Upload any additional Information	[View Document](#)
Details of available bandwidth of internet connection in the Institution	[View Document](#)

4.4 Maintenance of Campus Infrastructure

4.4.1 Average percentage of expenditure incurred on maintenance of infrastructure (physical and academic support facilities) excluding salary component during the last five years(INR in Lakhs)

Response: 58.26

4.4.1.1 **Expenditure incurred on maintenance of infrastructure (physical facilities and academic support facilities) excluding salary component year-wise during the last five years (INR in lakhs)**

2020-21	2019-20	2018-19	2017-18	2016-17
44.4	133.02	97.09	135.63	126.16

File Description	Document
Upload any additional information	[View Document](#)
Details about assigned budget and expenditure on physical facilities and academic support facilities (Data Templates)	[View Document](#)
Audited statements of accounts	[View Document](#)

4.4.2 There are established systems and procedures for maintaining and utilizing physical, academic and support facilities - laboratory, library, sports complex, computers, classrooms etc.

Response:

The Management of Rural Engineering College, Hulkoti gives paramount importance for maintenance of infrastructure and its proper utilization through systematic approaches. All the departments are provided with Classrooms and Laboratories as per the curriculum of Visvesvaraya Technological University (VTU) Belagavi and as per the guidelines set by All India Council of Technical Education New Delhi (AICTE) from time to time.

- The Estate-Officer is In charge of the Campus Maintenance

- The Estate-Officer oversees the up-keeping of Buildings, Classrooms, Underground Drainage system and Electrical Maintenance.
- The Supervisor organizes the work-force and conducts periodic check-ups to ensure the maintenance of infrastructure that includes maintenance of Generator and R-O Water Purifiers.
- Adequate house-keeping staffs are employed with responsibility to meticulously maintain the hygienic atmosphere of the campus which enables a better learning
- The Classrooms, Staffrooms, Seminar halls, Offices, Laboratories and other amenities are cleaned and maintained regularly and monitored. Wash-Rooms and Rest-Rooms are well maintained by the assigned cleaner.
- The Heads of the department will look after the maintenance of all laboratories. The Laboratory assistants under the supervision of the *Lab-in-charge* maintain the proper working of the equipment, computers and other accessories.
- The Librarian will look after the maintenance of Library including Book racks, Furniture, Books, Journals and magazines for assuring protection from moths and binding of damaged books.
- The Physical Director will look after the maintenance of Sports equipment including Gym and sports grounds.

- Ample Dust-bins are placed wherever necessary in the campus. The Green cover of the campus is well maintained by a team headed by the Supervisor. The College campus including Boys &Girls Hostel is monitored with Closed-Circuit Television (CCTV) surveillance having 116-Cameras.The College is having well trained in-house electrician to maintain the campus electric works. To maintain the water line and drainage system by external agency is engaged as and when required.
- A Periodic reporting on the requirements of repairs of infrastructure and maintenance of machines are submitted to the Principal through the Estate Officer and HOD respectively. The requirements are collectively processed at the semester end for ensuring smooth conduct of academics of the new semester.

Electrical Maintenance of Generator

- The Electrician monitors the Generator usage and enters the details of the fuel consumed in Log-book which will be reported to the principal through the Estate Officer. In case of a major issue in functioning of generator, the Service-Engineer is called and estimation is prepared. The generator will be serviced after due approval from the Principal.

Maintenance of Sports Complex

The Physical-Director is In-charge of sports department and will maintain and prepare the pitches and ground for Cricket, Athletics, Kabaddi, Kho-Kho, Volley Ball and Basket-Ball **b**y submitting the estimate to the Estate Officer who in turn gets approval from the Principal.

Maintenance of Library

The Books and the Learning-Resources will be made available based on the Curriculum and Syllabus of the University from time to time.

Record of new arrivals is maintained in the Log-Book and Bar-Coded. The damaged books are kept separately for binding. Care is taken to ensure protection from moths.

The Procurement-Bills along with the books are well maintained in the Library. The details of the Invoice and books are entered in the accession Register with classified numbers

File Description	Document
Upload any additional information	View Document
Paste link for additional information	View Document

Criterion 5 - Student Support and Progression

5.1 Student Support

5.1.1 Average percentage of students benefited by scholarships and freeships provided by the Government during last five years

Response: 55.99

5.1.1.1 **Number of students benefited by scholarships and free ships provided by the institution, Government and non-government bodies, industries, individuals, philanthropists during the last five years (other than students receiving scholarships under the government schemes for reserved categories)**

2020-21	2019-20	2018-19	2017-18	2016-17
235	450	569	698	614

File Description	Document
upload self attested letter with the list of students sanctioned scholarship	[View Document](#)
Upload any additional information Average percentage of students benefited by scholarships and freeships provided by the Government during the last five years (Data Template)	[View Document](#)

5.1.2 Average percentage of students benefitted by scholarships, freeships etc. provided by the institution / non- government agencies during the last five years

Response: 42.7

5.1.2.1 **Number of students benefited by scholarships and free ships provided by the institution, Government and non-government bodies, industries, individuals, philanthropists during the last five years (other than students receiving scholarships under the government schemes for reserved categories)**

2020-21	2019-20	2018-19	2017-18	2016-17
376	371	375	402	324

File Description	Document
Upload any additional information	[View Document](#)
Number of students benefited by scholarships and freeships institution / non- government agencies in last 5 years (Date Template)	[View Document](#)

5.1.3 Capacity building and skills enhancement initiatives taken by the institution include the following

      1.**Soft skills**
      2.**Language and communication skills**
      3.**Life skills (Yoga, physical fitness, health and hygiene**)
      4.**ICT/computing skills**

Response: A. All of the above

File Description	Document
Details of capability building and skills enhancement initiatives (Data Template)	[View Document](#)
Any additional information	[View Document](#)
Link to Institutional website	[View Document](#)

5.1.4 Average percentage of students benefitted by guidance for competitive examinations and career counselling offered by the Institution during the last five years

Response: 40.56

5.1.4.1 **Number of students benefitted by guidance for competitive examinations and career counselling offered by the institution year wise during last five years**

2020-21	2019-20	2018-19	2017-18	2016-17
378	360	340	340	330

File Description	Document
Number of students benefited by guidance for competitive examinations and career counselling during the last five years	[View Document](#)
Any additional information	[View Document](#)

5.1.5 The Institution has a transparent mechanism for timely redressal of student grievances including sexual harassment and ragging cases

1. Implementation of guidelines of statutory/regulatory bodies
2. Organisation wide awareness and undertakings on policies with zero tolerance
3. Mechanisms for submission of online/offline students' grievances
4. Timely redressal of the grievances through appropriate committees

Response: A. All of the above

File Description	Document
Upload any additional information	View Document
Minutes of the meetings of student redressal committee, prevention of sexual harassment committee and Anti Ragging committee	View Document
Details of student grievances including sexual harassment and ragging cases	View Document

5.2 Student Progression

5.2.1 Average percentage of placement of outgoing students during the last five years

Response: 40.76

5.2.1.1 **Number of outgoing students placed year - wise during the last five years.**

2020-21	2019-20	2018-19	2017-18	2016-17
135	134	89	88	75

File Description	Document
Upload any additional information	View Document
Self attested list of students placed	View Document
Details of student placement during the last five years (Data Template)	View Document

5.2.2 Average percentage of students progressing to higher education during the last five years

Response: 23.08

5.2.2.1 Number of outgoing student progression to higher education during last five years

Response: 51

File Description	Document
Upload supporting data for student/alumni	[View Document](#)
Details of student progression to higher education (Data Template)	[View Document](#)
Any additional information	[View Document](#)

5.2.3 Average percentage of students qualifying in state/national/ international level examinations during the last five years (eg: IIT-JAM/CLAT/ NET/SLET/GATE/ GMAT/CAT/GRE/ TOEFL/ Civil Services/State government examinations, etc.)

Response: 90.07

5.2.3.1 Number of students qualifying in state/ national/ international level examinations (eg: IIT/JAM/ NET/ SLET/ GATE/ GMAT/CAT/GRE/ TOEFL/ Civil Services/ State government examinations, *etc.*)) year-wise during last five years

2020-21	2019-20	2018-19	2017-18	2016-17
6	11	10	4	1

5.2.3.2 Number of students appearing in state/ national/ international level examinations (eg: JAM/CLAT/NET/ SLET/ GATE/ GMAT/CAT,GRE/ TOFEL/ Civil Services/ State government examinations) year-wise during last five years

2020-21	2019-20	2018-19	2017-18	2016-17
7	13	10	5	1

File Description	Document
Upload supporting data for the same	[View Document](#)
Number of students qualifying in state/ national/ international level examinations during the last five years (Data Template)	[View Document](#)
Any additional information	[View Document](#)

5.3 Student Participation and Activities

5.3.1 Number of awards/medals won by students for outstanding performance in sports/cultural activities at inter-university/state/national / international level (award for a team event should be counted as one) during the last five years.

Response: 32

5.3.1.1 **Number of awards/medals for outstanding performance in sports/cultural activities at university/state/national / international level (award for a team event should be counted as one) year-wise during the last five years.**

2020-21	2019-20	2018-19	2017-18	2016-17
1	6	8	8	9

File Description	Document
Number of awards/medals for outstanding performance in sports/cultural activities at university/state/ national/international level during the last five year	[View Document](#)
e-copies of award letters and certificates	[View Document](#)
Any additional information	[View Document](#)

5.3.2 Institution facilitates students' representation and engagement in various administrative, co-curricular and extracurricular activities following duly established processes and norms (student council, students representation on various bodies)

Response:

The college believes in transparency in all the activities. Students are therefore encouraged to participate in Administrative, Curricular & Extracurricular activities. The Student council is formed in the presence of Principal and all the HODs. The Class representatives are elected by the students of their respective classes. The college student council is constituted with one student representative from each class. Amongst the final year class representatives, One student is elected as General Secretary through confidential voting and Secretaries are also elected by the same procedure preferably from lower semester for various activities like Sports, Cultural, Co curricular and extracurricular activities.

The General Secretary and various Secretaries also involve all the other students to work as Coordinators for various events like Workshops, Seminars, Paper presentations, In'nova, Shodh & REC Utsav. Coordinators and Student volunteers work on their respective disciplines and report to their Secretaries. The Secretaries in turn report to the General Secretary. Only the General Secretary will report to the Principal regarding any matter. Students are the epicenter of many activities in the campus. Students

involve in various activities and exhibit all round development. Student representatives are considered in various committees like Extracurricular committee, Disciplinary Committee, Hostel (Boys & Girls) Development & Welfare committee, Alumni committee, Cultural/Sports committee, Internship Committee, NSS Committee, Anti Sexual Harassment Committee& Women Empowerment Committee. Students develop cooperative culture and leadership abilities by working in representative bodies.

List of Student Representatives in Academic year 2020-21			
Sl No	**Student Name /Sem/Branch**	**Committee/Cell/Council**	**Designation**
1	Rohit Naik VII Sem (Civil)	Student Council	General Secre
2	Manjunath Binnal VSem (Civil)	Student Council	Sports Secreta
3	Zaid Patil V Sem (Mech)	Student Council	Cultural Secre
4	Nitisha B VII Sem (CSE)	Student Council	Co Curricular
5	Pramodkumar III Sem (Civil)	Student Council	Class Represe
6	Manjunath Binnal V Sem(Civil)	Student Council	Class Represe
7	Rohit Naik VII Sem(Civil)	Student Council	Class Represe
8	Imam Hussain III Sem (Mech)	Student Council	Class Represe
9	Zaid Patil V Sem (Mech)	Student Council	Class Represe
10	Nikhil Pujari VII Sem (Mech)	Student Council	Class Represe
11	Nagaraj T III Sem (Text)	Student Council	Class Represe
12	Chandan B VSem (Text)	Student Council	Class Represe
13	Vishal C VII Sem (Text)	Student Council	Class Represe
14	Imtiyaz III Sem (CSE)	Student Council	Class Represe
15	Sana Koppal V Sem (CSE)	Student Council	Class Represe
16	Nitisha B VII Sem (CSE)	Student Council	Class Represe
17	Prabhu III Sem (E&C)	Student Council	Class Represe
18	Bhumika V Sem (E&C)	Student Council	Class Represe
19	Sadhana VII Sem (E&C)	Student Council	Class Represe
20	Uwezullakhan III Sem (Auto)	Student Council	Class Represe
21	Srinivasgoudar V Sem (Auto)	Student Council	Class Represe
22	Abhilashgoudar VII Sem(Auto)	Student Council	Class Represe

File Description	Document
Upload any additional information	[View Document](#)
Paste link for additional information	[View Document](#)

5.3.3 Average number of sports and cultural events/competitions in which students of the Institution participated during last five years (organised by the institution/other institutions)

Response: 40

5.3.3.1 **Number of sports and cultural events/competitions in which students of the Institution participated year-wise during last five years**

2020-21	2019-20	2018-19	2017-18	2016-17
40	38	39	40	43

File Description	Document
Upload any additional information	[View Document](#)
Report of the event	[View Document](#)
Number of sports and cultural events/competitions in which students of the Institution participated during last five years (organised by the institution/other institutions (Data Template)	[View Document](#)

5.4 Alumni Engagement

5.4.1 There is a registered Alumni Association that contributes significantly to the development of the institution through financial and/or other support services

Response:

The greatest asset of any institute is its alumni. A good institute can measure its growth by its alumni base. Our Alumni are performing extremely well at various places and positions around the globe. Alumni are the most important stakeholders of our institute. The institution has established the Alumni Association in the year 2004 and it has been registered as an " HALE VIDYARTHIGALA SANGA HULKOTI" on 22/09/2006 under the Karnataka Societies Registration Act, 1960 (Karnataka Act 17 of 1960) with Society Number : GDG-S96-2006-07. Every year alumni fees is collected from each student as a life time membership and can become a member by completing registration process.

Hale Vidyarthigala Sanga of REC has organization structure as President, Vice President, Secretary, Joint Secretary, Treasurer and Members. It has a total of 33 members in this Committee. The Office

bearers of this committee communicate happenings in the institute with the alumni by means of eSmail and social media including Almashine app. The committee members meet once in a year. The secretary of the committee calls for the meeting. In the committee meeting major topics like selecting President of the Association ,previous committee meeting resolutions will be read and also accounts audit reports and approvals to be done are discussed and finalized. Also the various budget approvals of works to be carried out in the campus are discussed and finalized.

Hale Vidyarthigala Sanga of REC has organized many alumni meets and recently a mega Alumni meet was conducted in the campus in coordination with Alumni on 1st and 2nd Feb 2020.Around 600 alumni gathered for the meet from various batches and branches. The Alumni felicitated all the existing faculties and also the retired faculties of their times. In turn, the management was also happy to give a memento to all the Alumni gathered as a token of memory. Various cultural activities were organized as a part of entertainment post lunch. On the second day there was an interaction with all the existing students with the alumni. They gave valuable suggestions to build their career and also shared their experiences.

The involvement of alumni in supporting and providing contributions voluntarily to this institution is important for maintaining and expanding institute

Our alumni are serving in this institute in the following ways:-

- Participation in the programs likes seminars, Workshops, etc, as a resource person.
- Delivering expert lectures regularly and guiding the students about new trends in the work environment, skill enhancements, professional ethics and catering students need of career.
- Evaluating various technical events as jury member.
- Contribution for the Construction of Open Air Theatre in the college campus.
- Installation of RO water plant
- Alumni Association Departmental Store
- Installation of Dustbins and Benches in Campus

File Description	Document
Upload any additional information	[View Document](#)
Paste link for additional information	[View Document](#)

5.4.2 Alumni contribution during the last five years (INR in lakhs)

Response: A. ? 5 Lakhs

File Description	Document
Upload any additional information	[View Document](#)
Link for any additional information	[View Document](#)

Criterion 6 - Governance, Leadership and Management

6.1 Institutional Vision and Leadership

6.1.1 The governance of the institution is reflective of and in tune with the vision and mission of the institution

Response:

The governance of the RTE Society's Rural Engineering College (RECH) is highly enabling and empowering all the major stake holders of the institution in order to impart quality education. A fool proof education system is ensured in such a way that the governance promotes the realization of the Vision and the Mission for which the institution was established.

Vision

To be a globally recognized engineering institution ensuring academic excellence coupled with human values, fostering innovation and entrepreneurial attitude.

Mission

- To impart quality technical education with lifelong learning capabilities.
- Promote practical based learning to address societal problems.
- Equip graduates with sound technical skills and soft skills to be globally employable, who can take up challenges of the present and the future.
- To produce morally, ethically and responsible engineers.

Nature of Governance

The Governance and Leadership of the Institution ensure that its Higher Education operations are functioning well by nurturing the Decentralization and Participative decision-making process as the key factors. The governing council provides guidelines to maintain high standards in imparting education by setting objectives relevant to policy, hiring quality professionals, rewarding the achievers, provide infrastructure, other facilities. The decisions taken in the Governing Council meetings are implemented through HOD's and faculty members in order to ensure continuous improvement in Academics and Administration. Principal along with HODs motivate faculty, supporting staff and students to maintain a competitive and conducive academic environment. The institution maintains qualified and experienced faculty in every department to enable the students to be technically strong, globally competitive and willing to serve the Nation. Individual departments conduct various events like Shodh to enrich and promote innovative ideas.

The curriculum and mode of training are in tune with the needs of the students and current technologies. Humanistic values in education are upheld in the classroom & college activities. The Management, Governing Council and IQAC collectively take necessary steps to accomplish the vision and mission of the Institution.

Perspective Plans

The Institution focuses its Perspective Plans for the upcoming academic years based on Quality in Higher Education. Accordingly, decision-making process and quality planning are articulated keeping in view of Vision and Mission. The Principal and senior faculty members design the calendar of activities based on the University calendar and the management monitors its implementation providing the necessary support. The principal monitors the implementation of the following perspective plans;

- Establishment of research centers in all departments.
- Achievement of accreditation by NBA, NAAC.
- Develop Industry-Institute partnership & innovative activities.
- To provide training for entrepreneurial skills for selective students.
- Starting of PG programs.

Participation of Teachers

Teachers play a major role in the decision-making, planning, implementation; participate in the academic and administrative functions of 18 committees and 4 cells of the Institution. IQAC collects inputs from these committees while making strategic academic planning as the teacher is the key executor of it. Teacher also holds responsibility for examining and assessing the students in a transparent way and in time with adherence to regulation.

File Description	Document
Upload any additional information	[View Document](#)

6.1.2 The effective leadership is visible in various institutional practices such as decentralization and participative management

Response:

The College promotes decentralization and participative management in most of the activities related to the effective running of the institution. Faculty members perform additional responsibilities besides handling theory and practical courses and are involved in the areas of conduct of examinations, guest lectures, events, placements, training, purchase, co-curricular activities.

The Institution has a culture of decentralized governance system with well-defined inter-relationships. The Institution delegates adequate authority to the departments to work and there are various committees involving faculty which are constituted to manage different institutional activities. Committees are formed for the various curricular, co-curricular and extracurricular activities to be conducted during the academic year. The departments are encouraged to arrange various activities with the support of Management for the benefit of Students and Faculty; also, the management has extended enough financial powers to Head of the Institute and Department Heads.

Case Study: REC UTSAV-Shodh(Student paper presentation)

RTE Society's Rural Engineering College, Hulkoti organizes annually inter college fest REC UTSAV, a technical and cultural events with an aim to provide a platform for students to exchange their innovative ideas in the field of Engineering and cultural activities which has been approved by the Management and the Principal on the proposal. The Chairman of UTSAV is nominated by the Principal who prepares the plan and the budget by involving the student secretary and staff in charges of the various events to be held in UTSAV.

The Chairman, REC UTSAV coordinates with teaching, non-teaching staff and students secretaries to form the committees like Sports, Cultural, Shodh, Techno fest and farewell to the final year students. The winners are facilitated with the certificates and prizes. The funds are utilized to organize the events and to distribute the prizes.

Students from other colleges also participate along with our college students. The events are as follows: Shodh-Technical paper presentation, Techno Rally- Robot panther, Engine Assembly, Technical Quiz, Survey Hunt, Debugging, Electro hunt, General Quiz, Floating Structure, Essay Writing, Cooking without fire, Gully Cricket, LAN Gaming, Crazy Minute, Ad-Making, T-shirt Designing, Cultural events-Singing(Solo & Group), Dancing (Solo & Group), Rangoli, Sketching, Mime, Street play etc., On 2/5/2019, REC UTSAV was inaugurated by Mrs. Vanitha Satish (Oracle Finance Service), Chief Guest Rajashekhar reddy (President, All India Private Bank). Nearly 1000 students participated in various technical and cultural events. The winners are felicitated with certificates and medals.

The outcomes of the event are as follows:

- Participating in on-campus social events enables students to meet people who share different ideas and views, which may help them academically and professionally.
- Enhancing Students technical knowledge, recent trends etc.,
- It improves the student's interest towards research and innovation.
- It enhances the organizational skills of the students.
- It identifies the talents among the students.
- Faculty and students work together in a team and expose more towards imparting leadership qualities.
- Inculcate social belongingness and harmony.

This event gives a means of motivation, platform to showcase the talents and ends with a happy note.

File Description	Document
Upload any additional information	[View Document](#)

6.2 Strategy Development and Deployment

6.2.1 The institutional Strategic / Perspective plan is effectively deployed

Response:

The strategic plan is made by the institution to fulfill expectation of all stake holders, by providing quality education with well-established infrastructure which helps in global recognition, attaining excellence and to imbibe human values for a better society.

Industry Readiness And Skill Enhancement Program was successfully implemented in Rural Engineering College Hulkoti.

The two pronged plan for implementing the industry readiness and skill enhancement stagey is signing of MOU with industries and giving skill based training.

The REC signed MOU's with many industries. In collaboration with these industries college conduct several skill enhancement programs for students. In collaboration with the "Regent Floechem equipments Pvt Ltd", "Fastners & Allied Products Pvt Ltd" "HI-TON Industries" and "Weldon steel Harihar" the Mechanical department conducted several Foundation programs, Industrial visits. In collaboration with the "Cluster Info Solutions Pvt.Ltd", "Tattvalabs Pvt Ltd", "MITRAS IT Solutions", "SEVENTH SENSE Technologies Pvt. Ltd", "TECH FORTUNE Technologies", and "HAEGAL Foundation" the department of Computer science engineering provide internships and training to many students. In collaboration with the "Rangannavar Associates" , "SAC Engineering And Construction" "Mr. Narayan Tirlapur Pwd Class I Contractor & Engineers" and "Dream Line Architect's " the Civil engineering department provide internships to many students and provide training for construction material testing

The training and personality development program successfully implemented in REC for the benefit of students to improve their confidence in their overall career. An effective student training and personality development program in association with Career Prime, TCS Employability Training and Seventh Sense has been established for the purpose of enhancing the technical skills and improving the personality of the students.

In the academic year 2016-2017, an MOU with Career Prime Campus Recruitment Solutions Mysore was signed to train on aptitude logic, technical, personality development and interpersonal skills. A customized module was made for a benefit of the student. Students after undergoing this training were confident in the placement drives. The number of students benefited attended the training for the year 2016-2017, 2017-2018, 2018-2019, 2019-2020 are 68, 84, 93 and 110 respectively.

Efforts were made to invite the TCS ITEM-Youth Employability Program to our college. This is good initiative of CSR (Corporate Social Responsibility) which helps to improve the technical skills of all category of students' community. The number of student attended the training for the year 2017-2018, 2018-2019, 2019-2020 2020-2021 are 28, 40, 57, 61 respectively.

In the academic year 2020-2021 the Seventh Sense Talent Solution were invited to conduct technical training and personality development training and is still continued. The outcomes as observed now that students exhibit strong interpersonal skills and are more responding. Their attitude towards learning, motives, values are at increased levels and respond diligently, positively to situations. The number of students attended the training for year 2020-2021 are 120.

These training programs are helping them to get jobs and also leverage their most marketable and transferable skills for the choice of career paths and to set realistic goals in their professional life.

File Description	Document
strategic Plan and deployment documents on the website	[View Document](#)
Paste link for additional information	[View Document](#)

6.2.2 The functioning of the institutional bodies is effective and efficient as visible from policies, administrative setup, appointment, service rules and procedures, etc.

Response:

The REC Hulkoti, has a well structured organizational hierarchy that oversees and supports the decision making which are consistent with the vision and mission of the institution. The flow in the structure itself indicative of a positive involvement of various members and bodies and they contribute in smooth transaction and translation of suggestions into actions.

Board of Management:

It is composition of founding directors who are prominent citizens, educators, eminent industrialist, entrepreneurs and technocrats. They primarily endorse the proposals forwarded by the governing council.

Governing Council:

The Governing Council is an extended wing of Board of Management comprising senior staff and Principal as member secretary. New proposals on quality improvement like setting up infrastructure, recruitment, and promotions of faculty, budget approval, introduction of new program, any kind of value addition to students and faculty etc. are addressed by this council.

Principal:

The Principal is the academic and administrative head of the institution. He is the interface between the Governing Council and members of the staff of the institution for any decisions and observations to be conveyed. He reports to Governing Council and Board of Management.

Vice principal:

Vice Principal ensures all day-to-day academic activities, appraises and reports to the Principal.

HODs:

They ensure effective and systematic working of their department, monitor academic progress, up gradation of labs and feedback. They form committees for mentorship, examination, curricular, co-curricular activities with faculty coordinators and they meet often to discuss adherence to schedules as in calendar of events.

Administrative Officer:

He/she assists the Principal in administration, preparation of the budget, new programs and supervision of all office work including accounts.

Librarian:

The librarian collects the requirement of books/digital books, journals, details from all departments every year. The purchasing of books, online educational tools, updating of online journals is done under the proper guidance of Principal. He/she must also take care of proper lending and return of books. The main duty of Librarian is proper maintenance of books and overall administration of Library in smooth academic sessions.

Hostel Warden:

Members of the staff are appointed as warden of hostels who maintain the student's well-being. Any problems related to students, maintenance with respect to mess, security, cleanness are reported to Principal.

Placement Officer:

The placement officer arranges skill development training program, aptitude, interpersonal skill, communication skills, personality development program, soft skills, training program for competitive examinations etc. The placement officer coordinates with the prospective companies for interview date, preparing the eligible list, schedule of events and arrangements for placement, presenting the offer letter.

Physical Director (PD):

PD looks after the physical well-being of students and takes care of sports, extracurricular activities and developing their capabilities to participate in University, State and National level events.

Estate Officer:

The officer looks after all general amenities of a building, security, transportation and oversees new construction in the campus.

File Description	Document
Upload any additional information	[View Document](#)
Paste link for additional information	[View Document](#)
Link to Organogram of the Institution webpage	[View Document](#)

6.2.3 Implementation of e-governance in areas of operation

1. Administration
2. Finance and Accounts
3. Student Admission and Support
4. Examination

Response: A. All of the above

File Description	Document
Screen shots of user interfaces	[View Document](#)
ERP (Enterprise Resource Planning) Document	[View Document](#)
Details of implementation of e-governance in areas of operation, Administration etc	[View Document](#)
Any additional information	[View Document](#)

6.3 Faculty Empowerment Strategies

6.3.1 The institution has effective welfare measures for teaching and non-teaching staff

Response:

The institution is taking many welfare measures for all the teaching & non-teaching staff as they are the backbone of the institution. Following are the Welfare Measures:

Teaching Staff:

- Employee Provident Fund (EPF) facility is provided to all the faculty members of the institution.
- Employees State Insurance (ESI) for the faculty members.
- Salary Advances for the faculty members under genuine Circumstances.
- Financial assistance to meet emergency medical expenses of faculty & their family members.
- Maternity benefits for the faculty members.
- Paternity leaves.
- Medical leaves for the hospitalized faculty members.
- Nursing Facility in collaboration with RMS Hospital, Hulkoti
- Leave for faculty members for doing higher studies.
- Vacation Leaves for all the faculty members.
- Sponsorship and leave for faculty members to attend Conferences, Development programs, Seminars, etc.
- Free Bus Facilities for the Local faculty members.
- Subsidized bus facilities for the faculty members traveling from Hubballi.
- Subsidized accommodation (staff quarters/Hostel) inside/outside the campus.
- Gym facility inside the campus for faculty members.
- Yoga facility (regularly yoga meet for faculty members to reduce the stress and improve health conditions).

Non-Teaching/Supporting Staff:

- Employee Provident Fund (EPF) facility is provided to all staff members of the institution.
- Employees State Insurance (ESI) for the staff members.

- ○ Salary Advances for the staff members under genuine Circumstances.
- ○ Financial assistance to meet emergency medical expenses of staff & family members.
- ○ Earned Leaves for all the staff members.
- ○ Medical leaves for the Hospitalized staff members.
- ○ Nursing Facility in collaboration with RMS Hospital, Hulkoti.
- ○ Free Bus Facilities for the Local Staff Members.
- ○ Subsidized bus facilities for the staff members traveling from Hubli-Dharwad.
- ○ Subsidized accommodation (staff quarters/Hostel) inside/outside the campus.
- ○ Gym facility inside the campus for staff members.
- ○ Yoga facility (regularly yoga meet for staff to reduce the stress and improve health conditions).

File Description	Document
Upload any additional information	[View Document](#)

6.3.2 Average percentage of teachers provided with financial support to attend conferences/workshops and towards membership fee of professional bodies during the last five years

Response: 21.71

6.3.2.1 **Number of teachers provided with financial support to attend conferences/workshops and towards membership fee of professional bodies year wise during the last five years**

2020-21	2019-20	2018-19	2017-18	2016-17
25	21	08	21	28

File Description	Document
Upload any additional information	[View Document](#)
Details of teachers provided with financial support to attend conference, workshops etc during the last five years	[View Document](#)

6.3.3 Average number of professional development /administrative training programs organized by the institution for teaching and non teaching staff during the last five years

Response: 2

6.3.3.1 **Total number of professional development /administrative training Programmes organized by the institution for teaching and non teaching staff year-wise during the last five years**

2020-21	2019-20	2018-19	2017-18	2016-17
2	2	2	2	2

File Description	Document
Upload any additional information	[View Document](#)
Reports of the Human Resource Development Centres (UGC ASC or other relevant centres)	[View Document](#)
Reports of Academic Staff College or similar centers	[View Document](#)
Details of professional development / administrative training Programmes organized by the University for teaching and non teaching staff	[View Document](#)

6.3.4 Average percentage of teachers undergoing online/ face-to-face Faculty Development Programmes (FDP)during the last five years (Professional Development Programmes, Orientation / Induction Programmes, Refresher Course, Short Term Course).

Response: 26.9

6.3.4.1 **Total number of teachers attending professional development Programmes viz., Orientation / Induction Programme, Refresher Course, Short Term Course year-wise during the last five years**

2020-21	2019-20	2018-19	2017-18	2016-17
39	50	10	16	12

File Description	Document
Upload any additional information	[View Document](#)
Reports of the Human Resource Development Centres (UGC ASC or other relevant centers)	[View Document](#)
IQAC report summary	[View Document](#)
Details of teachers attending professional development programmes during the last five years	[View Document](#)

6.3.5 Institutions Performance Appraisal System for teaching and non-teaching staff

Response:

Teaching Staff:

The college has implemented Self-Appraisal form (Academic Performance) for analyzing the performance of the faculty with respect to academic, research, co-curricular/professional development. This system was customized from UGC Regulations and has been implemented. The Annual Faculty Review is conducted by HOD, senior staff, Principal. Every year, faculty members are required to submit their candidature as per the Annual Performance Index (API) format, wherein they are required to perform a self evaluation based on the different criteria like , university result, pedagogical initiatives and achievements in teaching duties, R & D, consultancy, publications of research papers, etc. Students are also stake holders in the teaching learning process. Therefore the feedback of each faculty covering all the classes and subjects taught by them is taken from the students in both the semester. Faculty is given the opportunity to share their views. If the score is below the minimum prescribed score, then a corrective action is recommended to such faculty member for improvement. If the score is above the prescribed, then every year the faculty will be awarded with "Best Teacher" award on 5th September on eve of teacher's day celebration.

Effectiveness and follow-up action:

The Performance Appraisal System has significantly helped in the evaluation of the performance of employees, in motivating them, analyzing their strengths and weaknesses and ensuring better performance. This method is in practice for faculty whose performance is not satisfactory and such faculty are sent for training or given time to improve their skills in the respective area.

Non-Teaching staff:

The performance of non-teaching staff is monitored at the department level. The Confidential Report (CR) is collected from respective head of the department about the performance of non-teaching staff. The performance assessment consists professional competence like ability to organize work, taking up extra load when required, innovation willingness to learn etc. besides they also assess the quality of work, behavioral aspects like group behavior, acceptability, punctuality etc. Based on the CR evaluation suitable actions are initiated.

File Description	Document
Upload any additional information	[View Document](#)
Paste link for additional information	[View Document](#)

6.4 Financial Management and Resource Mobilization

6.4.1 Institution conducts internal and external financial audits regularly

Response:

1. Internal Audit

The Institution has provided sufficient financial resources for all the departments and this has enabled to

sustain and achieve the institutional objective. Based on the requirement, heads of department prepare the annual budget proposal and submit to the Principal. Accordingly, RTE Society reviews the budget proposals and approves it. After that purchase will be made according to the budget proposal submitted by the respective department heads. If any deviation occurs, Principal will address the issue and give justification and will be followed by the approval. This procedure helps in avoiding unnecessary expenses and optimum utilization of funds are possible.

The internal audit is done by in-house team and will carry out the accounting procedure of internal control of finance quarterly. Since the institution follows a good system of control procedure like calling quotations, comparison of rates, preparation of purchase order for each and every requirement needed, preparation of wage sheets, all the employee benefits are vouched like conducting and participating in seminars, conferences, faculty development programs etc. No expenses are incurred without proper approval or sanction by the head of the institution or head of the various departments.

2. External Audit

The institution also has external audit mechanism carried out by M/s Raghavendra Rao & Associates, Chartered Accountants with FIRM REGN NO: 0033245 (Anand L Potnis with member no. 21685), Gadag. This statutory auditor audits the annual account and examines process evidences like fees collection with approved list of students with KEA to VTU, such verification of any discrepancies occur will be discussed and sorted out with the office. Once all financial transactions are accounted, based on those financial statements like balance sheet and Income and Expenditure Statement is prepared for the financial year end. Such financial statements will be signed and approved by Auditor and Management. Based on the audited financial statements, auditor will issue final Audit Report.

File Description	Document
Upload any additional information	[View Document](#)

6.4.2 Funds / Grants received from non-government bodies, individuals, philanthropers during the last five years (not covered in Criterion III)

Response: 0

6.4.2.1 Total Grants received from non-government bodies, individuals, Philanthropers year wise during the last five years (INR in Lakhs)

2020-21	2019-20	2018-19	2017-18	2016-17
0	0	0	0	0

File Description	Document
Details of Funds / Grants received from of the non-government bodies, individuals, Philanthropers during the last five years	[View Document](#)

6.4.3 Institutional strategies for mobilisation of funds and the optimal utilisation of resources

Response:

Mobilization of Funds:

Most of the funds required by the institution are being met out by tuition fees paid by the students. Apart from this, the institution also has allocated finance function to one of the managing committee members who will look after the procurement and deployment of the funds. The Karnataka government regulates fee to be collected from the students for the institutions are fixed by Directorate of Technical Education (DTE)/AICTE. The tuition fee fixed for the institution depends on the infrastructure available, the faculty strength, and sanctioned students strength by VTU Belagavi for individual branches. The DTE takes the data from respective colleges every year and conducts inspection to finalize the student's fees for undergraduate and post graduate courses. The funds are granted through the collection of tuition fee as guided by the DTE. The Tuition fees are collected annually.

The other sources of income are:

1. Transport fees collected from students.

2. Admission fees.

3. Application fees.

4. Miscellaneous College fees.

5. Consultancy fees.

6. from external exams (FDA, SDA, TCS exams).

REC, Hulkoti generates revenue of on average 2-5 lakh rupees per year in the form of consultancy from various engineering departments every year.

REC conducts common entrance exams of various government and also non government undertaking Exams like FDA, SDA, TCS and KVK.

The tuition fees for economically weak students and students of backward and SC/ST are financed through scholarships from Karnataka state government. The eligible students apply for scholarship through college and necessary assistance for applying the same is provided by the college.

Strategies for optimal utilization of financial resources:

The mobilization of funds is an important aspect to maintain quality education in the institution. The majority of the financial needs of the institution will be fulfilled by tuition fees paid by the students. The mere tuition fee from the students is not sufficient to meet the standards. The management takes initiative to fill this financial gap. Faculty members actively involved in generating funds by submitting their research proposals to various funding agencies and by undertaking the consultancy services. These funds are utilized for developing research laboratories and upgrading the facilities. The institution follows a well-defined mechanism for monitoring the effective utilization of the financial resources for academic process and infrastructure development. The budget for every year is proposed by the finance committee after taking into consideration the requirement of each department. After getting approval from the principal and governing body on the proposed budget, the finance committee will ensure the effective utilization of the allocated funds.

Optimal Utilization of funds can be done as follows:

- Conducive academic ambience.
- Constant encouragement for professional development.
- Thrust for research and publication and various staff welfare schemes.
- Environment-friendly campus with facility for rainwater harvest, segregation of wastes and diverse flora promotes natural resources conversation and also conducting various training programs for faculty, students, academic activities and fests.

File Description	Document
Upload any additional information	[View Document](#)

6.5 Internal Quality Assurance System

6.5.1 Internal Quality Assurance Cell (IQAC) has contributed significantly for institutionalizing the quality assurance strategies and processes

Response:

Practice 1: Single Window System

The Institution adapts the single window system at the administrative office for the student to obtain required documents in short period of time and to ease the burden at the counter which reduces waiting time and to assure student of quick receipt of the required document.

The counter in-charge allocated for single window system ensures the student's requirement is promptly addressed and directs the application to specific section such as admission, accounts, office section, examination section, scholarship section, department and other sections. From 2019 to till date nearly five thousand applications are received from students and are benefitted from this practice. The procedure and flowchart of co-operative learning is described below.

Procedure

1. Application is received from the student at the single window counter by the in-charge receptionist.
2. The Receptionist verifies the received application.
3. Receptionist then specifies the time required for preparation of the document to the student.(Within 2 hours)
4. Application is sent to the respective section for further verification and preparation of the document.
5. Respective sections will prepare the document and get the approval from the principal.
6. Principal approves the prepared documents. If finds any queries, he send back the application for further verification.
7. The approved document is received back at reception.
8. The acknowledgement is received from the student after the issue of document.

Practice 2: Cooperative Learning

The Cooperative learning is an educational methodology in which students work in groups in order to achieve determined purposes or goals. It is achieved by a group of students with common interests according to the motivations levels and needs in a specific area.

The Institution has adapted the following process for cooperative learning.

1. The mentors are allocated for each group of students
2. Mentors will select students who show interest in cooperative learning in a common topic.
3. Each group consists of 10 students
4. For example in the department of ECE students are divided into groups based on the subjects such as image processing, embedded and IOT, artificial intelligence, DSP, VLSI etc. .
5. Groups will have discussion on the given topics.
6. Feedback and suggestions will be given by mentors based on the discussion.
7. Finally the reports will be generated by mentors after the discussion.

Outcomes:

Cooperative learning helped the students to develop Positive interdependence, Group processing, appropriate use of skill and individual responsibility. It also promotes Face to face interaction which interns helped the students in placement and examination.

File Description	Document
Upload any additional information	[View Document](#)

6.5.2 The institution reviews its teaching learning process, structures & methodologies of operations and learning outcomes at periodic intervals through IQAC set up as per norms and recorded the incremental improvement in various activities (For first cycle - Incremental improvements made for the preceding five years with regard to quality For second and subsequent cycles - Incremental improvements made for the preceding five years with regard to quality and post accreditation quality initiatives)

Response:

Reform 1: Micro teaching

Micro-teaching is one of the initiatives taken by the REC for improving the quality of the teaching. Micro-teaching is a teacher training and faculty development technique whereby the teacher (experience less than 5 years) reviews a recording of his/her session for about 10-20 minutes in every academic year. Based on the feedback received from the review committee suggestions are given to improve the teaching level.

This process helps in improving quality of teachers in their teaching skills, communication skills, stage courage, pedagogy, subject knowledge, behavior, mannerisms, body language and attitude. From this micro teaching they can enhance the effective class management skills. It also helps the teachers to learn or create new teaching strategies which will bring back the interest of their students in the classroom.

The process of Microteaching which is adapted is as follows

1. Initially preparing list of faculty members who have experience less than 5 years.
2. Then recording video of teaching sessions of about 10 to 20 minutes.
3. The recorded videos are sent to their respective department reviewing committee. The review committee of each department consists of Principal, Vice principal, HOD and two senior faculty members of department.
4. The committee reviews the communication skills, stage courage, pedagogy, subject knowledge, behavior, mannerisms, body language, usage of board and attitude.
5. Based on reviews the feedback is given to faculty members for further improvement in their teaching skills.

During the year 2020-21,seven faculty members from CSE,CIVIL AND TEXTILE Departments have undergone microteaching process. The following points were observed by the committee members

1. Lagging in presentation skills
2. Maximum usage of Boards
3. Usage of ICT tools in teaching learning process
4. Need to work on classroom preparation with examples
5. Eye-contact with the students
6. Body language improvement
7. Lagging in communication skills

Reform 2: Experimental Based Learning

The institution has adapted a practice to teach a topic using experiments in the laboratory. Practical awareness is inculcated and students are trained both quantitatively and qualitatively during the lab sessions to enhance their understanding and problem solving abilities. Taking a hands-on approach to learn a topic will increase the ability to understand the information quickly and retain it for longer periods of time. Here concerned faculty decide the topic which is to be thought and implemented in respective laboratories and gets the approval from to Head of the department. The common goal is to learn the complicated topic with practical approach in easy enjoyable and understandable manner. The lessons are delivered a topic in classroom but in experiment based learning students can design and build the system.

For example in department of ECE was conducted a experiment on design and FPGA implementation of finite state machine. Here students already studied theoretically design of finite state machine which is implemented practically in the laboratory. Student will learn experimentally the process of designing a digital circuits and implementation of the same in the FPGA chip.

File Description	Document
Upload any additional information	[View Document](#)

6.5.3 Quality assurance initiatives of the institution include:

1. **Regular meeting of Internal Quality Assurance Cell (IQAC); Feedback collected, analysed and used for improvements**
2. **Collaborative quality intitiatives with other institution(s)**
3. **Participation in NIRF**
4. **any other quality audit recognized by state, national or international agencies (ISO Certification, NBA)**

Response: D. 1 of the above

File Description	Document
Upload details of Quality assurance initiatives of the institution	View Document
Upload any additional information	View Document

Criterion 7 - Institutional Values and Best Practices

7.1 Institutional Values and Social Responsibilities

7.1.1 Measures initiated by the Institution for the promotion of gender equity during the last five years.

Response:

A gender discrimination and harassment free environment is given to all students and staff members. The institution is ensuring a safe, secure and friendly environment where the students and staff can pursue their academic dreams with a joy and prestige without any embarrassment.

1. Safety & Security:

Under "The Sexual Harassment of Women at Workplace (Prevention, Prohibition and Redressal) Act, 2013" referred to as "The Act. 2013", the college has constituted "The Prevention of Sexual Harassment Committee". The meetings are held on regular basis to discuss any complaints received from students, teaching and Non-teaching members.

Similarly, Anti-Ragging Committee is formed and members make sure that there are no instances of ragging anywhere in the girls' hostel and campus. Anti-ragging banners are conspicuously displayed at all noticeable places with helpline numbers.

The students, staff members and parents, are facilitated to submit their grievances, if any through the web portal https://rechulkoti.edugrievance.com/. The grievances are regularly monitored and addressed by grievance cell members and admin.

The main gates of College, Boy's Hostel, Girl's Hostel, Classrooms, Laboratories, and Corridors are guarded with 116 CCTV cameras. Napkin dispenser and incinerator are made available in the ladies' washrooms. Fire extinguishers and hydrants are placed strategically.

The institution is regularly addressing the current issues like Gender concern, Safety and Security through various Seminars, Workshops and Awareness programs. The Principal is monitoring and encouraging all the activities and training programs related to the safety and security organized in the college. The experts are invited from the industries and organizations for conducting workshops and various sessions related to women safety like self-defence, cyber-crime, health and hygiene.

2. Common Room:

The Common room is made available for the girl students and ladies faculty in the campus and as well as in girl's hostel with all the required facilities. Similarly, a common room with all the facilities is provided for both boys and gent's faculty in boy's hostel. The common rooms are well equipped with suitable lighting facility, table, chairs, bed and natural ventilation. If the student or faculty feel sick or weak then they can go to common room and take rest.

3. Counselling:

At the department level, every student is assigned to one faculty mentor who helps the students in academics, co-curricular, extra-curricular activities and making career choices. Faculty mentor shall guide the students in taking up the elective courses for registration, enrolment in every semester, offer advice to the students on academics, learning additional courses through MOOC platforms such as NPTEL, Swayam, etc and related personal matters. Counselling is carried on with the students periodically to ensure the wellbeing of the students. If the mentor feel that student need to undergo counselling from experts then such students are referred to Dr. Satish Hombale through Principal. The institution is having an association with *Dr. Satish Hombale,* the Specialist in K. H. Patil Institute of Naturopathy and Yogic Science, Hulkoti**,** will counsel the student if any cases are referred. So far, no such cases were reported by faculty mentor.

File Description	Document
Link for annual gender sensitization action plan	View Document
Link for specific facilities provided for women in terms of: a. Safety and security b. Counselling c. Common Rooms d. Day care center for young children e. Any other relevant information	View Document

7.1.2 The Institution has facilities for alternate sources of energy and energy conservation measures

1. **Solar energy**
2. **Biogas plant**
3. **Wheeling to the Grid**
4. **Sensor-based energy conservation**
5. **Use of LED bulbs/ power efficient equipment**

Response: B. 3 of the above

File Description	Document
Geotagged Photographs	View Document
Any other relevant information	View Document
Any other relevant information	View Document

7.1.3 Describe the facilities in the Institution for the management of the following types of degradable and non-degradable waste (within 500 words)

- **Solid waste management**
- **Liquid waste management**
- **Biomedical waste management**
- **E-waste management**
- **Waste recycling system**

• **Hazardous chemicals and radioactive waste management**

Response:

Solid Waste Management:

The institution has sufficient quantity of litter bins for collecting degradable and non – degradable waste within the campus.

The litter bins are labelled as Dry/Wet Waste are installed at various places within the campus. Dry Solid & wet waste generated in the campus is collected by Garbage Vehicle, Rural Panchayat, Hulkoti and scientifically segregated as per the norms of the State Pollution Control Board in landfill dumping yard located in Hulkoti for disposal.

Liquid Waste Management:

The Campus has a network of underground sewer lines and the sewage disposal is connected through a common line which diverts the entire sewage to a single source Sewage Treatment Plant located in Hulkoti to treat the same. The Sewage Treatment Plant, Hulkoti has a capacity of 1.4 Lakh litres and approved by Karnataka State Pollution Control Board. The contaminants are removed and treated water is used for agricultural purposes. Other liquid waste generated from different laboratories is also connected to network of sewer lines. The working of all the pumps and valves are checked periodically to ensure the smooth flow of liquid waste.

Biomedical waste management

Biomedical waste generated in the campus is very minimal and negligible. Napkin incinerators are installed in ladies wash rooms to burn the used napkins and pads. The ash produced from the incinerator is collected regularly and disposed in dumping yard located at South-East zone of campus.

E-Waste Management:

At the department level, the head of the department will prepare a list of non-working devices and will write a request letter to principal to seek the permission to call service engineers to repair the devices. The Computer Science and Engineering department will call Excel Computer Systems, Vijayapur to repair or to replace the devices under buy-back policy. If the devices are beyond economical repair and not viable then they will issue a letter stating that these devices can be treated as E-Waste. The Electronics and Communication Engineering department will communicate with SIECO Test and Measurement Service, Bengaluru to repair/assess the lab instruments. If the instruments are beyond economical repair and not viable then they will issue a letter stating that the instruments can be treated as E-Waste. E-Waste is disposed through Sogo-Energy Pvt Ltd located in Bangalore which is a Government of Karnataka Approved E-Waste Collector & Recycling company. Sogo-Energy Pvt Ltd issued a destruction certificate after destructing E-Waste.

Waste Cycling System:

The waste generated in hostel mess and canteen is segregated as dry and wet waste in separate bins and it is dumped in vermicomposting pit located beside the hostel and the manure is used for planation. The degradable waste generated from Tree like leaves, branches, etc., is dumped into a pit located in South-East zone of campus. Then it is used as vermicomposting manure for plantation.

File Description	Document
Any other relevant information	View Document
Link for Relevant documents like agreements/MoUs with Government and other approved agencies	View Document

7.1.4 Water conservation facilities available in the Institution:

1. **Rain water harvesting**
2. **Borewell /Open well recharge**
3. **Construction of tanks and bunds**
4. **Waste water recycling**
5. **Maintenance of water bodies and distribution system in the campus**

Response: A. Any 4 or all of the above

File Description	Document
Any other relevant information	View Document
Link for any other relevant information	View Document

7.1.5 Green campus initiatives include:

1. **Restricted entry of automobiles**
2. **Use of Bicycles/ Battery powered vehicles**
3. **Pedestrian Friendly pathways**
4. **Ban on use of Plastic**
5. **landscaping with trees and plants**

Response: A. Any 4 or All of the above

File Description	Document
Various policy documents / decisions circulated for implementation	View Document
Link for any other relevant information	View Document

7.1.6 Quality audits on environment and energy are regularly undertaken by the Institution and any

awards received for such green campus initiatives:

1. **Green audit**
2. **Energy audit**
3. **Environment audit**
4. **Clean and green campus recognitions / awards**
5. **Beyond the campus environmental promotion activities**

Response: A. Any 4 or all of the above

File Description	Document
Reports on environment and energy audits submitted by the auditing agency	View Document
Certification by the auditing agency	View Document
Certificates of the awards received	View Document
Link for any other relevant information	View Document

7.1.7 The Institution has disabled-friendly, barrier free environment

1. **Built environment with ramps/lifts for easy access to classrooms.**
2. **Divyangjan friendly washrooms**
3. **Signage including tactile path, lights, display boards and signposts**
4. **Assistive technology and facilities for Divyangjan accessible website, screen-reading software, mechanized equipment**
5. **Provision for enquiry and information : Human assistance, reader, scribe, soft copies of reading material, screen reading**

Response: A. Any 4 or all of the above

File Description	Document
Policy documents and information brochures on the support to be provided	View Document
Link for any other relevant information	View Document

7.1.8 Describe the Institutional efforts/initiatives in providing an inclusive environment i.e., tolerance and harmony towards cultural, regional, linguistic, communal socioeconomic and other diversities (within 500 words).

Response:

Institution has made lot of efforts to cater the students from rural areas of the state of different caste, creed and religion. Every year, the institution conducts one/two week induction program for the first year students as per the norms and regulations of the affiliating university. Topics like Universal Human Values

and Professional Ethics are being deliberated by the in-house faculty and other resource persons.

Institution organizes annual day event in the name of REC UTSAV for 4 days, wherein first day is celebrated as National Level Technical Paper Presentation event. The second day of the event is celebrated as the TechnoRally day in all the departments. On this day, students of different branches organize programs like cook without fire event to represent different food habits of the nation. Third day of the event is celebrated as Cultural Charisma wherein the students participate in different activities like Singing, Dancing, Rangoli Competition, Poster Making, etc which brings harmony in students. Fourth day of the event is marked as an ethnic day and Annual Gathering Day. On this day, students adore different costumes representing culture of different region of the state and also different states.

Every year institution encourages NSS students to attend national integration camp. The NSS students take a lead role in organizing several extension activities for the upliftment of the society at large in the form of Sadhbhavana Diwas, Blood Donation Camps, International yoga day, SwatchBharat Abhiyan, Environment Day, Road Safety Awareness Program, Health Awareness Program, Gandhi Jayanthi Day and Students, Alumni and staff visited special children school and old age home.

Sadhbhavana Diwas is regularly organized on 20th August of every year to highlight the importance of communal harmony, peace, national integrity and unity in diversity. NSS had carried out Flood relief campaign at Hulkoti village on 21st August 2019 and collected the money towards relief fund for the flood victims and also a day's salary of each faculty is donated to flood victims. A sum of RS 5 lakh cheque is given to district collector in presence of college management, Principal and others.

Electoral Literacy awareness program is organized to impart awareness among the youth of the nation with respect to active participation in electoral process. In this regard, essay competition and quiz competition are conducted whenever elections are declared in the region/state/country.

Every year institution celebrates Kannada Rajyostava (Mathrubhasa Diwas) to bring harmony, culture and human values among each other.

Every year institution celebrates fair of Rajarajeshwari temple located in Hulkoti, RANGAPANCHAMI(5th Day) on eve of HOLI, Ganesha Murthy Erection (Pratistapan), DASARA festival, LAXMI Pooja on eve of Deepavali, and RAKSHA BANDHANA by Eshwari Vishwa Vidyalaya, Hulkoti. The faculty and students celebrate Navaratri for nine days that symbolizes nine colours/forms of Goddess Durga Matha. Each day students and faculty adore a colour attire such as orange, red, white, blue, yellow, green, grey, purple and peacock green that represents different Awatara/form of the Goddess Durga Matha. Faculty also visit historical places.

File Description	Document
Link for supporting documents on the information provided (as reflected in the administrative and academic activities of the Institution)	[View Document](#)

7.1.9 Sensitization of students and employees of the Institution to the constitutional obligations: values, rights, duties and responsibilities of citizens (within 500 words).

Response:

Being a citizen of India, some of the moral responsibilities and duties mentioned in the constitution are:

- We must respect the National Flag and National Anthem
- Obey the laws of our country, protect the power, unity and integrity of the country, safeguard public property, pay our taxes with honesty promptly, protect and preserve cultural heritage sites, protect, preserve and improve the natural environment
- We must guard the country and maintain the spirit of a common brotherhood

Inclusion of such commitments to the Constitution is important for the progress, peace, and prosperity of the country.

To inculcate these values in staff and students, teachers are being deputed regularly to various seminars/workshops on Constitutional and Universal Human Values organized by the AICTE and the focus of teaching and learning was on the constitutional values and objectives.

The programs on Universal Human Values are being planned, structured, designed and organized to teach the basics of Constitutional and Universal Human Values. Every year, the institution conducts one/two week induction program for the first year students as per the norms and regulations of university. Topics like Universal Human Values, Professional Ethics and highlighting information with respect to Fundamental duties, directive principles and responsibilities of citizens for developing the nation are being deliberated by the in-house faculty and other resource persons.

As a part of the University curriculum, constitution of India and professional ethics (CIPE)(18CPC39/49) and Environmental Studies(15CIV18/28, 17CIV18/28, 18CIV59) is taught as a non-credit course for the first year engineering of 2015/2017 scheme in the first/second semester and second year lateral entry students of 2015/2017 scheme in the third/fourth semester. However, the same subjects are being taught as a mandatory credit courses for the 2018 scheme students in the third/fourth semester and fifth semester respectively. The syllabus of CIPE covers all modalities, which to sensitize a person, awaken his/her conscience and develop an attitude of behaving decently in a social set up with the following outcomes.

- To create awareness about the constitutional values and objectives written in the Indian Constitution.
- To inculcate in students and teachers a sense of belongingness to society in general and the nation in particular

Every year institution celebrates Republic Day and Independence Day to reflect upon the sacrifices made by our freedom fighters and recollect the contributions made by Dr. B. R. Ambedkar, father of our Indian constitution. Students and Staff express their views about fundamental rights & duties, Human rights and directive principles of the constitution. Institution celebrates constitution day as "Samwidhan Diwas" on 26th November of every year. During this day all the staff and students take oath to follow and protect the constitution of India.

The fundamental values and duties are discussed and the need to practice is reinforced during the constitution day celebration.

As and when the elections are announced, an "Electoral Literacy Awareness Program" is organized to create awareness of the need to exercise vote. Essay and quiz events are conducted.

File Description	Document
Link for details of activities that inculcate values necessary to render students in to responsible citizens	[View Document](#)

7.1.10 The Institution has a prescribed code of conduct for students, teachers, administrators and other staff and conducts periodic programmes in this regard.

1. The Code of Conduct is displayed on the website
2. There is a committee to monitor adherence to the Code of Conduct
3. Institution organizes professional ethics programmes for students, teachers, administrators and other staff
4. Annual awareness programmes on Code of Conduct are organized

Response: A. All of the above

File Description	Document
Details of the monitoring committee composition and minutes of the committee meeting number of programmes organized reports on the various programs etc in support of the claims	[View Document](#)
Code of ethics policy document	[View Document](#)

7.1.11 Institution celebrates / organizes national and international commemorative days, events and festivals (within 500 words).

Response:

The Institution has been celebrating the National and International Commemorative days, events and festivals every year. The following events/days celebrated in the college.

Independence Day (15th-Aug): The institution has been celebrating Independence Day for every year. The Management, Principal, Staff members, NSS-Volunteers and the Students of the institution are participating in flag hoisting.

Sadbhavana Diwas (20th-Aug): The Institution celebrates Sadbhavana diwas on the eve of birth anniversary of Rajeev Gandhi.

Teachers Day (05th-Sept): The students are taking the lead role for organizing the celebrations by showering love and affection towards the staff members for their services and contributions. The Principal

address all the staff members and speak about the achievements and qualities of Sri. Sarvapalli Radhakrishnan. Students distribute sweets to all the teaching and non-teaching staff members.

Engineers Day (15th-Sept): It has been Celebrating every year to mark the birth anniversary of Sir. M. Visweswaraiah for his immense achievements, contributions towards the society. Civil engineering department has been preparing the presentation slides to recollect the engineer's contributions.

Gandhi Jayanthi and Lal Bahadur Shastri Birth Anniversary (02nd-Oct): The students and staff members are recollecting the memories of their supreme contributions by father of the nation Mahatma Gandhi and Lal Bahadur Shastri with respect to the importance of peace, non-violence and hygiene. All students and faculty members voluntarily participate to keep the campus clean and plastic free as a remark of Swatch Bharath Abhiyana Scheme initiated by Government of India.

Karnataka Rajyothsava Day (01st-Nov): Students, Staff and the Management recollect the importance of celebrations of statehood and Regional Language. Students speak about importance of Kannada Rajyostava. Staff and students participate in dance and sing Kannada songs.

Constitution Day (26th Nov): All the staff and students take oath to follow and protect the constitution of India. Students and Staff express their views about fundamental rights & duties, Human rights and directive principles of the constitution.

Republic Day (26th – Jan): Students, Staff and Management hoist the National Flag and recollect the importance of protecting the constitution and contribution made by Dr. B. R. Ambedkar in framing the constitution.

International Women's Day (08th-March): All the Girls Students and Women Staff members are taking the lead role with the assistance of all Boys students and the male staff members for celebrating international women's day every year. A lecture will be arranged in the seminar hall by an eminent speakers and make the function with a tea party by recollecting the memories of great women achievers.

Electoral Literacy Day (3rd Apr): Electoral Literacy Day is organized as and when elections are announced to impart awareness among the youth of the nation with respect to active participation in electoral process.

World environment Day (5th June): Principal, Students and staff members carried out tree plantation program in the campus. Principal distributed Tree saplings to the NSS Students volunteers. Staff and Students affixed Tag Name to their adapted Tree.

International Yoga Day (21st-June): Management, Principal, Staff and Students celebrate yoga day every year.

File Description	Document
Link for Geotagged photographs of some of the events	<u>View Document</u>
Link for any other relevant information	<u>View Document</u>
Link for Annual report of the celebrations and commemorative events for the last five years	<u>View Document</u>

7.2 Best Practices

7.2.1 Describe two best practices successfully implemented by the Institution as per NAAC format provided in the Manual.

Response:

The Institution is recognized for best practices for Employability, up-skilling of students and staff skill set, Teaching & Learning Process, Green Campus Initiative, Holistic Education, Regular Training with respect to Communication, Technical and Soft-Skills, Internships & Effective Alumni interface through Alumni portal.

Best Practice 1:

1. Title of the Practice: Holistic Education for Students

2. Objectives of the Practice

- To develop intellectual, life skills, emotional, social, physical, artistic, creative and spiritual abilities in students.
- To prepare students to meet the challenges in life as well as in academics.
- To encourage and engage students for personal and collective responsibility.
- To make learning natural, fun, engaging and meaningful experience.
- To instil curiosity and develop better communication and social skills.
- To find identity, meaning, and purpose in life through connections to the community, to the natural world, and to spiritual values such as compassion and peace.

3. The Context

A holistic education motivates students to learn about a subject in totality. It implants curiosity and allows students to learn naturally and creatively. It is also attuned to each students individual persona and learning style, in contrast of the current mass educational system. In addition, the institution should also be the place where they are taught to have better understanding about life from a spiritual point of view. The institute encourages spiritual values to be a part of education in college, because we believe a student will learn better only if he/she is explained the purpose of spirituality in life. However, in this hustle- bustle of daily life and pressure to perform there is a challenge to set the mind, body and soul at peace while going about the daily routine. Therefore, incorporating human values such as love, compassion, patience, forgiveness, etc., through spiritual education, students will have a balance between internal and external morals and develop a good character. Also, emphasizing on spiritual education, students will know that, apart from gaining education to improve one's material attainment and success, it is also important to have selfless love and respect for the society.

4. The Practice:

The holistic education is included as part of co-curricular activity and conducted every year for new batch of students. The experts are invited from Prajapita Brahmakumari Eshwari Viswavidyalaya, Gadag, Dr. Satish Hombale, K. H. Patil Institute of Naturopathy and Yogic Sciences, Hulkoti and In-house resource person Mr. S. T Halakatti, Asst. Professor, Department of Computer Science and Engineering. Once the admissions are closed for that year, the coordinator will prepare a list of students who will be attending the sessions of holistic education. The sessions are scheduled and conducted at-least once/twice a week based on the academic calendar. According to the schedule, the coordinator will communicate to respective resource persons to inform the dates of the sessions. The institution will provide hospitality to resource persons and also makes necessary arrangements for smooth conduction of sessions.

5. Evidence of Success

The holistic education has brought in values, curiosity, emotional growth, improved communication and social skills in students. Students voluntarily participated and conducted various activities like fund raising for flood victims, Blood donation camp to create awareness among students, Swatch Bharat Abhiyan at various temples and college premises, visited and distributed sweets to Special Children School (Physically Disabled Student School), visited and served food to Jeevan Sandya Old Age Home under the banner "*Ashraya-Badukige Ondu Daari*", visited government school to motivate students to return to school under the banner Maarali Baa Schoolige.

6. Problems Encountered and Resources Required

- Motivating students to attend these sessions is found difficult initially.
- Awareness of need to attend spiritual education among young students community is very low.

Resources Required

- Financial Support
- Hospitality for Resource persons.

- An exclusive room with proper environment that suits the holistic education

Base Practice 2:

1. Title of the Practice: Industry Internship for Faculty

2. Objectives of the Practice

- To gain experience for adopting current engineering knowledge and technology in teaching or to apply for any new situations
- To be able to integrate existing engineering knowledge with new industrial applications
- To be familiar with the working culture and environment in organizations
- Gain competencies and experience to understand Industry-Academia gaps and bridge them
- To understand how actually the classroom learning applies to the industry and to what extent

3. The Context

It is imperative that the educator should be abreast with the advances in technology, latest devices, skills and methodologies with which she/he can make classroom level teaching-learning process an interesting one. University curriculum is time framed and not dynamic enough to adopt sudden advances. The obsoleteness of knowledge learnt and inability to adapt to current technology is hindering student from being gainfully employed. The institutions are under a great stress to renew education offered by them, to be as close as possible to the industrial requirement and expectations. Competition in the job sector is rising exponentially and securing entry-level jobs is getting very difficult.

The industry internship for faculty serves as an open window for learning, adapting and adopting. There is ample evidence of tangible and intangible benefits accrued. The institution and the student community experience new perspective in learning along with strong footing in fundamentals and the science behind technology and the courses.

The intangible benefits are:

- Increased knowledge and confidence levels of the faculty intern
- Ability to connect technology and its applications in real-world
- Students learn subjects with a wider perspective and apply them to projects

4. The Practice:

Following the resolution of the Research and Development Committee from the academic year 2018-2019 and its recommendation for faculty internship, the department plans for deputing staff and invites applications. Based on the need and industries offering such internship on current technology, members of the faculty are shortlisted. The staff member selected is required to plan the date and accordingly adjust academic schedule and other responsibilities. The internship program is for Two/Three weeks therefore such assignment is undertaken in the holidays and successive weekends to avoid the hassles. The staff deputation is on paid leave but on few occasions, all other expenses are also provided. Upon completion of the internship, the faculty is expected to submit a report on the internship details, its content and usefulness. The member of faculty then plans for conducting sessions to train colleagues and students specifically on the area of the internship. It is mutually beneficial for staff, students and institution.

5. Evidence of Success

The intense has infused new thoughts and insights on how the classroom teaching can be revamped and the learning process can be made pleasant and knowledgeable experience. There is enough scope for retraining and realignment of teaching to suit experiential learning and for a new action plan. There is now ample opportunity for source funding for projects, training, and sponsorship too. Almost all departments which had deputed staff for internship had applied for grants and few got them too. This would not have been possible if it was not industry internship for staff. More interactions with the outside world leading to

further MoU's for Internship for students. Placement opportunities for students enhanced. Give better feedback to offer value added programme and input to the University syllabus changes and curriculum enhancement.

6. Problems Encountered and Resources Required

* Encouraging experienced faculty to attend two/three week industry internship was found difficult initially
* Adjustment of academics and other responsibilities was difficult

Resources Required

* Financial support
* Laptop with computing facility

File Description	Document
Link for Best practices in the Institutional web site	[View Document](#)
Link for any other relevant information	[View Document](#)

7.3 Institutional Distinctiveness

7.3.1 Portray the performance of the Institution in one area distinctive to its priority and thrust within 1000 words

Response:

"Green Campus Initiative - A Person-A Tree"

The institution is located 8 Km from Gadag and 45 Km from Hubballi on National Highway-63 and laid across 48.28 acres of green ambience, designed to meet the academic requirements and to provide outdoor and indoor sports facilities.

Close to 300 students are admitted as fresher's and there are more than 1000 students and staff in the

campus every day. Necessary steps are taken and several plantations are planted across the campus. "**A Person-A Tree**" is an important distinct initiative by our institute to create awareness among the students and staff regarding the importance of ecology and the natural environment. Trees are valuable gifts of nature and are known as the best friends of human beings. They benefit us in various ways. The trees are the foremost source for producing oxygen in the environment; they help reduce the level of CO_2. We are now in the midst of crisis battling global warming and environmental-related issues.

The only way out is to plant and conserve more trees so as to replenish our surrounding and balance nature so that we live behind a respectable quantum of clean air for generations to come. This was the main reason why the campus looked like mini woodland from the day of the college inception. Since air quality plays a vital role for good health, every six months Air Quality monitoring instrument is used to monitor the criteria pollutants such as carbon monoxide, lead, ground-level ozone, particulate matter, nitrogen dioxide, and sulfur dioxide. The most important air quality parameters, which are measured, are NO_2, SO_2 & PM10.

The various objectives of the Practice are

- To create awareness among the students and staff regarding the importance of ecology and the natural environment.
- To save the endangered environment and to beautify the campus.
- To maintain clear eco-friendly environment that reduces pollution and improves the green ambience.
- To maintain a congenial atmosphere inside the campus

As a policy step, the coordinator prepares a list of newly admitted students and newly joined teaching and non-teaching staff. Each new member adopts a tree for its well-being and growth. An identification tag with species name and name of the care taker is prepared. Then every year on world-environment day, the tree plantation drive is conducted and the identification tag is affixed on the tree by the care taker. The care taker goes to the adopted tree regularly, do watering, prune branches wisely, remove ivy and lawn around the tree, remove built-up soil from around the root crown and collects tree leaves and branches if fallen and will dump in vermicomposting pit located at south zone of civil engineering department. Further the manure is used for planation. New areas with possible proximity to rain water harvesting surrounding are identified for plantation. Also awareness program and expert lectures are arranged with personnel from the forest department.

The staff and students are encouraged to use the public transport as the institution is located on NH-63 and well connected to government and private transport and also the institution extends college transport for free who travel from Gadag-Betageri to college and back and a nominal fees is levied for students and staff traveling from Hubballi. Hence, the entry of automobiles is restricted to the extent of reaching the campus parking lot in view to reduce carbon emission. Well grown plants and trees around the campus are maintained to reduce the effect of pollution.

So far 32 species from 849 major trees have been identified from the surrounding with scores of saplings yet to be tagged as they are still to grow. Auto replenishment of trees is seen and the level of clean air is at

its high as is evident. A large number of birds and reptile species have made the campus their home. It is now a favorite place for morning walks by students and staff.

The various Trees and Plants found in the campus are detailed below.

Sl. No	Type of Tree	Botanical Name	Number of Trees
1	Rain Tree	Samanea saman	74
2	Neem Tree	Azadirachta indica	111
3	Shisu	dalbergia sissoo	79
4	Sandalwood Tree	Santalum album	07
5	Roosewood Tree	Dalbergia latifolia	01
6	**Royal Poinciana/Gulmohar Tree**	Delonix Regia	18
7	**Plum Tree / Jamun Tree**	**Syzygium cumini**	03
8	**Eucalyptus Tree / Neelgiri**	**Eucalyptus globulus**	02
9	**Sirasal Tree**	**Albizia lebbeck**	04
10	**Banni**	**Prosopis cineraria**	05
11	**Honge**	**Pongamia pinnata**	18
12	**Kasawad**	**Casia siamea**	252
13	**Muttag**	**Butea monosperma**	01
14	**Honne**	**Pterocarpus marsupium**	01
15	**Noni**	**morinda longiflora**	50
16	**Peltophorum pterocarpum**	**peltophorum pterocarpum**	79
17	**Mahagoni**	**Swietenia mahagoni**	07
18	**Basavan Paada**	**Bauhinia purpurea**	02
19	**Shub Bul**	**Leucaena leucocephala**	09
20	**Kamar**	**Hardwickia binate**	24
21	**Badam**	**Terminalia catappa**	14
22	**Ashok**	**polyalthia longifolia**	25
23	**Sapota**	**Manilkara zapota**	02
24	**Guava**	**Psidium guajava**	02
25	**Coconut Tree / Nariyal**	**Cocos nucifera**	19
26	**Bettada Nalle**	**Phyllanthus emblica**	01
27	**Buraga**	**Bombax ceiba**	14
28	**Tecoma Stans Tree**	**Tabebuia aurea**	05
29	**Baari**	**Ziziphus jujube**	01
30	**Akasha Mallige**	**Millingtonia hortensis**	03

31	**Mysuru Sagavani**	**Acacia Auriculiformis**	04
32	**Miscellaneous Trees**	**Miscellaneous Trees**	12
	Total		**849**

The various problems encountered are: Fencing of the saplings was a must which involves high cost, Awareness of the need to protect saplings, among students, staff and locals was low and as students and faculty did not know about all available species that are not regularly found in all areas, such species name could not be identified initially. After conducting awareness program by forest officers, students and staff were able to identify the correct species name and also got to know the importance of protecting saplings then better conservation was observed.

File Description	Document
Link for appropriate web in the Institutional website	View Document

5. CONCLUSION

Additional Information :

It is known fact that Faculty with an outstanding academic background and sound conceptual knowledge of contemporary engineering studies and practices complete the process of converting the budding engineering students into employable technocrats. The faculty members of Rural Engineering College are research oriented and it is evident from the fact that many already hold Ph.D degrees and many more are pursuing. They are maintaining a good academia-industry interaction, facilitating presentation of papers by student and faculty in National, International conferences and journals. The faculties also are respected reviewers in popular journals, contributing in Board of Studies and syllabi forming of the University. There is a wide range of exposures to Projects, Internship with hands on experience. Choice making is given to students tochoose electives. Our thrust areas are effective communication skills, soft skills and personality development courses, Practical training in laboratories and seminars are organized. To enhance the competitive spirit of the students, they are encouraged to participate actively in Inter-Collegiate and industry-oriented competitions at national level. To further help students face the employment issues, various in-house as well as out sourced courses in Personality and Soft Skills Development, are conducted. Experts from industries are invited to address the students on how to face the challenging new world. As a means to allow students to become "all-rounder's", the students are encouraged to participate and contribute in Multi-disciplinary projects. This has improved our placement record. Leading IT companies and other reputed core companies organize placement drives at the college adhere students from our college.

Concluding Remarks :

That R.T.E Society's Rural Engineering College Hulkoti is popular among the student community and parents/guardians is an indicate that the college is currently delivering a very good quality of engineering education. One method of an objective measurement of the quality of education imparted at the college would be evaluating the number of academic achievers at the examinations held at the University level. The Institute has the enviable placements number and the trust of the corporate is the yardstick, hence this college is indeed a potential source for reliable, loyal and hardworking employees. A well-maintained playground for various outdoor games and excellent facilities for indoor games ensures that our students deliver consistently good performance in extra-curricular activities.

It has an ambitious target of enlarging the industry- institution interaction by entering into closer relationships with the industry and offering industry specific courses in the long run. As part of our ongoing process of widening our Industry-Academia Interaction, our departments HODs constantly work towards entering into MOUs with corporate houses that lead to better opportunities for our students to get in-plant training, corporate project work possibilities, research programs and finally suitable placements in those reputed organizations. Keeping all that is enumerated above in mind, it is humbly submitted that this Institution. R.T.E Society's Rural Engineering College Hulkoti deserves to be accredited well by NAAC. Such an accreditation will be a significant mile-stone in its history of academic achievements and also serve as a great morale booster in accelerating the growth of the institution and a big step in its progress towards building an institution that consistently delivers industry ready ethical technocrats.