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Preface

The Veerashaiva Vidyavardhaka Sangha is one of the philanthropic and prestigious society and pioneer in the educational field. It has been formerly registered as "Madras Veerasaiva Vidyavardhaka Sangha " on 7th march,1918.It was changed to Veerashaiva Vidyavardhaka Sangha, Ballari in 1933.Right from the inception, its main motto is to provide quality education to the student community in this backward region. The V.V.Sangha presently running 30 Institutions starting from primary to Post graduation in all educational area. The Sangha is ever expanding, growing and consolidating in the Service of mankind.

Rao Bahadur Y Mahabaleswarappa Engineering College was established in 1980, under the aegis of the Veerasaiva Vidyavardhaka Sangha, Bellary. It is located in sprawling campus over 53 Acres of Land. Rao Bahadur Y.Mahabaleswarappa Engineering College has grown to one of the reputed Engineering Colleges in Karnataka and has contributed thousands of engineers to the society who have carved name for themselves in various fields in India and abroad

This Self Study Report being submitted for the first cycle of Assessment and Accreditation presents information as per the requirement laid down by NAAC in this regard. The report has been organized in FOUR parts. In part-A includes a cover letter of the College , part-B Executive Summary, part - C profile of the institute and part- D consists of the Criterion-wise Report and Department-wise Evaluative Report. It is my privilege to submit the Self Study Report to the National Assessment and Accreditation Council, Bangalore for assesment and accreditation of the college.

PRINCIPAL



All India Council for Technical Education
(A Statutory body under Ministry of HRD, Govt. of India)

7th Floor, Chandraloka Building, Janpath, New Delhi-110 001
PHONE: 23724151/52/53/54/55/56/57 FAX: 011-23724163 www.aicte-india.org

F.No. South-West/1-2812142805/2016-04

Date: 25-Apr-2016

To:

The Principal Secretary (En. & Tech Education)
Govt. of Karnataka, K. G. S., 8th Floor,
M.S. Building, R. N. 545 Dr. B. R. Ambedkar Road,
Bangalore-560001

Sub: Extension of approval for the academic year 2016-17.

Ref: Application of the institution for Extension of approval for the academic year 2016-17

Sir/Madam,

In terms of the provisions under the All India Council for Technical Education (Grant of Approvals for Technical Institutions) Regulations 2012 notified by the Council vide notification number F.No.37-31/Legal/2012 dated 27/09/2012 and norms standards, procedures and conditions prescribed by the Council from time to time, I am directed to convey the approval for:

Regional Office	South-West	Application No.	1-2812142805
Name of the Institute	RAC SWANURTI MANASULSWARAPPA ENGINEERING COLLEGE	Permanent No.	1-0801/09
Name of the Society/Trust	VEERABASA VICHAYARHANA SANGHA, BELLARY	Postal Address	FORMERLY VJAYANAGAR ENGINEERING COLLEGE, CONYONMENT, BELLARY-583104 KARNATAKA, BELLARY, BELLARY, Karnataka 583104
Institute Type	Unaided - Private	Society/Trust Address	VEERABASA VICHAYARHANA SANGHA, GANDHINAGAR BELLARY BELLARY Karnataka 583 105

Consent for change from Women to Co-ed and Vice versa	No	Consent for change of name	No	Consent for change of site	No
Change from Women to Co-ed approved and vice versa	Not Applicable	Change of name Approved	Not Applicable	Change of site Approved	Not Applicable

To conduct following courses with the intakes indicated below for the academic year 2016-17

Application No: 1-2812142805			Course	Full-time	Affiliating Body	Intake 2015-16	Intake Approved for 2016-17	NRI Approved status	NRI / NRI / Half caste Approved status	Foreign Collaboration/Visiting Programs Approved status
Program	Full Time	Level								
ENGINEERING & A&D	Full Time	PDS + DAA	COMPUTER SCIENCE & ENGINEERING	FULL TIME	Veerabasa Technological University	12	12	NA	NA	NA

Application Number: 1-2812142805

Note: This is a Computer generated Report. No signature is required.
2017.

Printed By: ac2116821

Page 1 of 4
Letter Printed On: 24 January



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TECHNOLOGY	SE	POS	TECHNOLOGY	FULL TIME	University	10	12	NA	NA	NA
ENGINEERING AND TECHNOLOGY	1st SEM	POS 1, GRA DUA TE	DIGITAL COMMUNICATIONS AND NETWORKING	FULL TIME	Vellore Institute of Technology, Vellore	10	12	NA	NA	NA
ENGINEERING AND TECHNOLOGY	1st SEM	POS 1, GRA DUA TE	PRODUCTION MANAGEMENT	FULL TIME	Vellore Institute of Technology, Vellore	10	12	NA	NA	NA
ENGINEERING AND TECHNOLOGY	1st SEM	POS 1, GRA DUA TE	STRUCTURAL ENGINEERING	FULL TIME	Vellore Institute of Technology, Vellore	10	12	NA	NA	NA
ENGINEERING AND TECHNOLOGY	1st SEM	POS 1, GRA DUA TE	THERMAL POWER ENGINEERING	FULL TIME	Vellore Institute of Technology, Vellore	10	12	NA	NA	NA
ENGINEERING AND TECHNOLOGY	1st SEM	UND GR DUA TE	CIVIL ENGINEERING	FULL TIME	Vellore Institute of Technology, Vellore	120	120	NA	NA	NA
ENGINEERING AND TECHNOLOGY	1st SEM	UND GR DUA TE	COMPUTER SCIENCE AND ENGINEERING	FULL TIME	Vellore Institute of Technology, Vellore	120	120	NA	NA	NA
ENGINEERING AND TECHNOLOGY	1st SEM	UND GR DUA TE	ELECTRICAL AND ELECTRONICS ENGINEERING	FULL TIME	Vellore Institute of Technology, Vellore	120	120	NA	NA	NA
ENGINEERING AND TECHNOLOGY	1st SEM	UND GR DUA TE	ELECTRONICS & COMMUNICATION ENGINEERING	FULL TIME	Vellore Institute of Technology, Vellore	120	120	NA	NA	NA
ENGINEERING AND TECHNOLOGY	1st SEM	UND GR DUA TE	Mechanical Engineering	FULL TIME	Vellore Institute of Technology, Vellore	120	120	NA	NA	NA
	1st	POS	MASTERS IN	FULL	Vellore Institute of Technology, Vellore	90	90	NA	NA	NA



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MANAGEMENT	Shift	1 st GRA. QUAL.	BUSINESS ADMINISTRATION	TIME	Technological University, Birsam						
------------	-------	----------------------------	-------------------------	------	----------------------------------	--	--	--	--	--	--

The above mentioned approval is subject to the condition that RAO DHANU Y NARAYANAN ENGINEERING COLLEGE will follow and adhere to the Regulations, guidelines and directions issued by AICTE from time to time and the undersigned / affidavit given by the institution along with the application submitted by the institution on portal.

Courses Applied for Course by the institution for the AY 2016-17

Application No: 1-2016/142009			Name of the Course	Full/Part Time	Affiliating Body	Course Outcome Status
Program	Shift	Level				
ENGINEERING AND TECHNOLOGY	1 st Shift	UNDER GRADUATE	INDUSTRIAL AND PRODUCTION ENGINEERING (Self Approved Umapa AC)	FULL TIME	Vellore Institute of Technology, Birsam	Pending ¹
ENGINEERING AND TECHNOLOGY	1 st Shift	UNDER GRADUATE	INFORMATION SCIENCE AND ENGINEERING (Self Approved Umapa AC)	FULL TIME	Vellore Institute of Technology, Birsam	Pending ¹
ENGINEERING AND TECHNOLOGY	1 st Shift	UNDER GRADUATE	INSTRUMENTATION TECHNOLOGY (Self Approved Umapa AC)	FULL TIME	Vellore Institute of Technology, Birsam	Approved

¹ due to non submission of NOC's from University / Board and / or State Government

In case of any differences in content in this Computer generated Extension of Approval Letter, the content/information as approved by the Executive Council / General Council as available on the record of AICTE shall be final and binding.

Strict compliance of Anti-Ragging Regulation:- Approval is subject to strict compliance of provisions made in AICTE Regulation notified vide F. No. 27-30 Legal/AICTE/2009 dated July 1, 2009 for Prevention and Prohibition of Ragging in Technical Institutions. In case Institution fails to take adequate steps to Prevent Ragging or fails to act in accordance with AICTE Regulation or fails to punish perpetrators or incidents of Ragging, it will be liable to take any action as defined under clause 9(4) of the said Regulation.

Note: Validity of the course details may be verified at www.aicte-india.org.

Dr. Avinash S Pant



All India Council for Technical Education
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Vice - Chairman, AICTE

Copy to:

1. The Regional Officer,
All India Council for Technical Education,
Hegde Centre Building,
Bangalore University Campus,
Bangalore - 560 005, Karnataka
2. The Director Of Technical Education,
Karnataka
3. The Registrar,
Vishwavidyalaya Technological University, Belgaum
4. The Principal / Director,
RAO SAHADUR Y MAHA BALESWARAPPA ENGINEERING COLLEGE,
FORMERLY YLJAYANAGAR ENGINEERING COLLEGE, CONTONMENT, BELLARY-583104 KARNATAKA,
BELLARY BELLARY,
Karnataka-583104
5. The Secretary / Chairman,
VEERASAWA VIDYAVARDHAKA SANDHA, BELLARY
VEERASAWA VIDYAVARDHAKA SANDHA,
GANDHINAGAR,
BELLARY BELLARY,
Karnataka-583103
6. Guard File(AICTE)

EXECUTIVE SUMMARY

EXECUTIVE SUMMARY

Rao Bahadur Y.Mahabaleswarappa Engineering College was established in 1980, under the aegis of the Veerasaiva Vidyavardhaka Sangha, Bellary. It is located in sprawling campus over 62 Acres of Land. Rao Bahadur Y.Mahabaleswarappa Engineering College has grown to one of the reputed Engineering Colleges in north Karnataka and has contributed thousands of engineers to the society who have carved name for themselves in various fields in India and abroad. All Programmes offered by Rao Bahadur Y.Mahabaleswarappa Engineering College are approved by All India Council for Technical Education (AICTE), an apex body of the Government of India. The college is affiliated to Visvesvaraya Technological University (VTU), Kamataka.

• CURRICULAR ASPECTS

Rao Bahadur Y.Mahabaleswarappa Engineering College has set its own Vision, Mission and is trying to adopt Outcome based Education into practice since 2012. The curriculum of our programmes is revised every four years once by VTU to meet the needs of Industry, current research and social requirements. The curriculum meets the standards as prescribed by AICTE and other regulatory agencies. The Board of Studies of each programme constituted by eminent scientists, academicians and Industry Professionals. Further, our industry tie-ups, alumni interactions and co-curricular activities make the students more competitive and industry ready. Good number of events/programs on soft skills and professional development are conducted within the campus to enrich the skills of students.

• TEACHING - LEARNING AND EVALUATION

The institute gives wide publicity of its infrastructure, staff and other facilities through website and newspaper advertisements. Forty five percent of the seats are filled by KEA, thirty percent by COMED-K and the rest by the Management for both UG and PG. Admissions through KEA and COMED-K are as per the rules framed by the respective authorities. Financially weaker students are supported with scholarships as per state and central government norms. Female population surpasses male population and the institution is gender un-biased. Policies adopted by Govt. of Karnataka/VTU are strictly followed for differently-abled students. At the time of admission, each student has to undergo an on-line quality technical assessment test for their technical competence. The institution follows a well-structured plan for conduction of courses. Subject allotment is done well in advance and a course file containing information on all academic and extra-curricular activities is made available. The library has a good collection of books, e-books, e-journals and NPTEL videos. The language laboratory, internet lab, virtual labs, computer lab facility provide a good environment for students to learn the concepts and apply them to practical projects. A number of events on academic improvement, societal and environmental issues etc. are organized time to time. The Institution provides support to its faculty members for their overall growth

and development. They are granted leave for higher studies and are sponsored for seminars, workshops and conferences. The institution follows a transparent internal evaluation system. Internal assessment tests are conducted as per the guidelines of the affiliating university. After evaluation of Internal Assessment blue books, students are given a chance to verify the same. Progress reports are sent to parents after internal assessment tests. Slow learners are identified from internal assessment test results. They are counselled and remedial classes are scheduled for them. Bridge courses and enrichments courses are conducted for selected subjects during vacation period. Communication classes and personality development classes are scheduled along with regular time table. Advanced learners are given special attention through quiz programs, project based learning and involvement in R&D activities.

- **RESEARCH, CONSULTANCY AND EXTENSION**

Empowerment of engineering students is achieved with strong theoretical knowledge, interdisciplinary skills, creativity, innovation, hands on expertise and professional ethics. R&D initiatives at our institution foster these needs among students and faculty members. R&D policies and advisory committee drive research thrust with constant monitoring and encouragement. State-of-the-art lab facilities established with grants from VTU-RPS and AICTE provide the researchers exposure to advanced technology and urge to carryout interdisciplinary research. Over the last three years R&D has contributed in publishing research work in reputed journals, patents and commercialization of products that are of societal relevance. In-house journal publications, book of project abstract and half yearly newsletter enable staff and students to reach external agencies and showcase their R&D skills. Partnering with leading MNCs and research agencies through MOUs, R&D centre works on niche areas of research such as Computer vision, knowledge mining, Smart Systems, renewable energy, Image Processing and Data Analytics. Resources at R&D centre is put to optimum use in providing industry relevant training and consultancy activities that in turn generates revenue for further investment. Faculties of our college are encouraged to pursue Ph.D from VTU and other leading universities providing them relevant support as governed by research policies.

- **INFRASTRUCTURE AND LEARNING RESOURCES**

Management of Rao Bahadur Y.Mahabaleswarappa Engineering College has planned the infrastructure requirements as per the statutory body norms. All physical facilities like class room, seminar halls, laboratories, tutorial facilities, R&D centres are satisfying the curricular and co-curricular requirements. Extra circular activities like outdoor and indoor games, gymnasium, cultural activities, and health and yoga facilities are available. The master plan provides an insight about the future vision of the institution. The residential facilities are provided for boys and girls with recreational facilities, internet and Wi-Fi facilities etc. The water facility and security round the clock are provided. The college has well planned spacious library with large number of books, e-journals and digital materials along with

browsing centre. The college is having a health care facility attached to the hostel with ambulance. The college has provided the hygienic canteen and Mess facility for students. The placement cell is well established with GD, Interview rooms and seminar halls. The College is having a computing centre with sufficient no of systems with LAN and 20 MBPS Wi-Fi facilities, with licensed software as per requirements. The college campus is green with well maintained lawns, buildings etc. The equipments, furniture, computers and generator are well maintained to satisfy the needs.

• STUDENT SUPPORT AND PROGRESSION

Rao Bahadur Y.Mahabaleswarappa Engineering College provides all the welfare measures such as scholarships, free-ships and student safety insurance scheme to ensure a financially trouble free environment. It provides information about the competitive examinations and offers career counselling, soft skills training, entrepreneurial skills to enhance the employable opportunity of the students. The Placement cell is well equipped with staff and infrastructure to ensure smooth placement process. Rao Bahadur Y.Mahabaleswarappa Engineering College has grievance redressal, sexual harassment prevention, Anti ragging cells to address the issues. The alumni association is registered and provides a platform for aluminous to interact with the college. The College takes up the measures to monitor the slow learners and drop out students. It also monitors the career growth of the students. The students are encouraged to take part in several responsible administrative positions which not only improves their leadership skills but also helps them to achieve the academic excellence. Participation in several events, research, NSS, blood donation camp, swachh bharat andolan instils social responsibility amongst the students.

• GOVERNANCE, LEADERSHIP AND MANAGEMENT

Rao Bahadur Y.Mahabaleswarappa Engineering College is governed Veerasaiva vidya vardhka Sangha, Ballari, established in the year 1916 at Ballari. The institute has been contributing to Engineering and Management Education with a focus towards developing graduates with a global outlook and with necessary Entrepreneurial, Managerial & Software Development skills to succeed in a competitive world. As an academic institution it is continuously learning, evolving with every year and updating the needs of the companies by promoting all necessary requirements. Rao Bahadur Y.Mahabaleswarappa Engineering College believes in overall development of its all stakeholder. The institution is striving towards excellence and imparting practical knowledge through Technical expertise since its inception. Our College is privileged to have good Education and modern lab facilities, over all personality development with the support of Management and dedicated staff. Management of the Rao Bahadur Y.Mahabaleswarappa Engineering College has empowered its faculty members at all the level of the organization. Stakeholders are involved in the development of the institution.

• INNOVATIONS AND BEST PRACTICES

The College has adopted various measures to maintain a green campus which helps in developing an eco-balanced environment. The College ensures environmental consciousness in the minds of the students by conducting environmental awareness programmes time to time. A mandatory course Environmental Studies is prescribed in 1st semester of UG program by affiliating university. Innovation and Entrepreneurship development cell has been established to meet the challenge and need of the society. College has adopted certain Best Practices like "Mentoring System", "Research initiatives among students and faculty members" and "Entrepreneurship drive among students" which makes Rao Bahadur Y.Mahabaleswarappa Engineering College, Ballari as one of the best institution to enhance the performance of the students.

SWOC ANALYSIS**STRENGTH**

Rao Bahadur Y.Mahabaleswarappa Engineering College, Ballari is one of the pioneer institutions in north Karnataka region to imparting engineering education with emphasis on research, innovation, entrepreneurship and skill development.

- 53 acre lush green campus
- Department of Computer Science and Engineering NBA accredited for three years
- Innovation and Entrepreneur Development Cell
- VTU approved R&D Centres
- Research Projects funded by Government Agencies
- Young and motivated Faculty members mentored by experienced professors.
- 20 MBPS Wi-Fi enabled campus
- Good Library facilities.
- Book bank scheme for students.
- ICT facilities in most of the class rooms.

WEAKNESS

- Poor Communication skill of students because of their socio-economic
- Background which leads to an unsatisfactory level of comprehension and communication, particularly in the first two semesters.
- Lack of faculty exchange or student exchange programmes due to structural and governmental policy limitations.
- Campus placements of the college, needs to be improved.
- Aptitude of the students for higher learning is poor.
- Involvement of Staff in research is limited due to non availability of residential campus.

OPPORTUNITY

- Enhancing engineering values among socio-economic background Student through innovative teaching and learning process.
- Promoting the young and motivated faculty members towards research and academic excellence.
- Industry institute interactive learning to prepare industry ready candidates.
- To promote the active engagement of the learner as experimental and experiential learning.
- Enhancement of research and entrepreneur activity in the field of engineering and technology.

CHALLENGE

- Financial constraints inhibits the colleges desire to cater to all of the aspirations of the teaching and student community.
- Continuous change in technology that challenges the employability of the students.
- Increasing number of engineering colleges.
- Input quality of students, their academic performance and providing placement opportunities.

PROFILE OF THE INSTITUTION

SELF STUDY REPORT

SECTION B:

1. Profile of the Affiliated / Constituent College

1. Name and Address of the College:

Name:	RAO BAHADUR Y MAHABALESWARAPPA ENGINEERING COLLEGE,		
Address:	CANTONMENT, BALLARI		
City:	Pin : 583014	State : KARNATAKA	
Website :	http://www.rymec.in		

2. For Communication:

Designation	Name	Telephone with STD code	Mobile	Fax	Email
Principal	Dr. Kuppagal Veeresh	O:08392-244809 R:	+91-94480-43949	08392-242148	principalrymec@gmail.com
Vice Principal	Dr. Savita Sonoli	O: 08392244809 R:	+919343553487	08392-242148	savitachitrik@gmail.com
Steering Committee Co-ordinator	Dr. H.GIRISHA	O: 08392244809 R:	9449135047	08392-242148	hosaligiri@gmail.com

3. Status of the Institution:

Affiliated College: Affiliated to Visveswaraya Technological University, Belgaavi.

4. Type of Institution

a) By Gender

- i) For men
- ii) For women
- iii) For coeducation

Co-Education

b) By Shift

- i) Regular
- ii) Day
- iii) Evening

Regular

5. It is a recognized minority institution?

YES

NO

☒

If yes specify the minority status (Religious/Linguistic/ any other) and provide documentary evidence.

SELF STUDY REPORT

6. Sources of funding:

Government
Grant-in-aid
Self-financing
Any other

✓

7.

- a) Date of establishment of the college: 08/1980 (dd/mm/yyyy).
b) University to which the college is affiliated /or which governs the college
(If it is a constituent college)

**AFFILIATED TO VISVESWARAYA TECHNOLOGICAL UNIVERSITY
BELGAVI.**

- c) Details of UGC recognition:

Under Section	Date, Month & Year	Remarks(If any)
I. 2 (f)	01-09-2017	F.No.8-36/2016(CPP- I/C)
ii. 12 (B)		

- d) Details of recognition/approval by statutory/regulatory bodies other than UGC (AICTE, NCTE, MCI, DCI, PCI, RCI etc.).

Under Section/ clause	Recognition/ Approval details Institution/ Department Programme	Day, Month and Year (dd-mm-yyyy)	Validity	Remarks
i.	F.No. South-West/1- 2812142609/2016/EOA	Date: 25-Apr-2016	Intake Approved for 2016-17	
ii.	F.No. South-West/1- 3328409228/2017/EOA	Date: 16-Apr-2017	Intake Approved for 2017-18	
iii.				
iv.				

(Enclose the recognition/approval letter)

8. Does the affiliating university Act provide for conferment of autonomy (as recognized by the UGC), on its affiliated colleges?

YES

✓

NO

If yes, has the College applied for availing the autonomous status?

SELF STUDY REPORT

9. Is the college recognized
YES ☐ NO ☒

a) by UGC as a College with Potential for Excellence (CPE)?

YES ☐ NO ☒

If yes, date of recognition: (dd/mm/yyyy)

YES ☐ NO ☐

b) for its performance by any other governmental agency?

YES ☐ NO ☒

If yes, Name of the agency and Date of recognition:
(dd/mm/yyyy)

10. Location of the campus and area in sq.mts:

Location *	URBAN
Campus area in sq. mts.	53 ACERS
Built up area in sq. mts.	

(* Urban, Semi-urban, Rural, Tribal, Hilly Area, Any others specify).

11. Facilities available on the campus (Tick the available facility and provide numbers or other details at appropriate places) or in case the institute has an agreement with other agencies in using any of the listed facilities provide information on the facilities covered under the agreement.

- Auditorium/seminar complex with infrastructural facilities.

- Sports facilities

* play ground - Available

* Swimming pool - Available (sharing)

* Gymnasium - Available

- Hostel

- Boys hostel

i) Number of hostels	02
ii) Number of inmates	200
iii) Facilities (mention available facilities)	Solar water heater, Wi-Fi connectivity, Gymnasium, Reading & Recreation Room, Mess, Departmental Stores, Medical Clinic and ATM facility.

SELF STUDY REPORT

Girls hostel

i) Number of hostels	02
ii) Number of inmates	200
iii) Facilities (mention available facilities)	Solar water heater, Wi-Fi connectivity, Reading & Recreation Room, Mess, Medical Clinic

Working women's hostel

i) Number of hostels	01
ii) Number of inmates	150
iii) Facilities (mention available facilities)	Solar water heater, Wi-Fi connectivity, Reading & Recreation Room, Mess, Medical Clinic

Residential facilities for teaching and non-teaching staff (give numbers available — cadre wise) - NO -

Cafeteria — YES

Health centre — YES

First aid, Inpatient, Outpatient, Emergency care facility, Ambulance.....

Health centre staff -

Qualified doctor:	Full time		Part-time	YES
Qualified Nurse:	Full time		Part-time	YES

- Facilities like banking, post office, book shops
- Transport facilities to cater to the needs of students and staff
- Animal house
- Biological waste disposal
- Generator or other facility for management/regulation of electricity and voltage
- Solid waste management facility
- Waste water management
- Water harvesting

YES
YES
NO
YES
YES
YES
YES
YES
YES

12. Details of programmes offered by the college (Give data for current academic year)

Sl. No.	Programme Level	Name of the Programme/ Course	Duration	Entry Qualification	Medium of instruction	Sanctioned/ approved Student strength	No. of students admitted
	Under-Graduate	Civil engineering	4	PUC/ DIPLOMA	ENGLISH	120	
		Mechanical Engineering	4	PUC/ DIPLOMA	ENGLISH	120	

SELF STUDY REPORT

		Electrical & Electronics Engineering	4	PUC/ DIPLOMA	ENGLISH	120	
		Industrial Production Engineering	4	PUC/ DIPLOMA	ENGLISH	40	
		Electronics & Communication Engineering	4	PUC/ DIPLOMA	ENGLISH	120	
		Computer Science & Engineering	4	PUC/ DIPLOMA	ENGLISH	120	
		Information Science & Engineering	4	PUC/ DIPLOMA	ENGLISH	60	
		Electronics & Instrumentation Engineering	4	PUC/ DIPLOMA	ENGLISH	40	
	Post-Graduate	Computer Science & Engineering	2	BE/ B.TECH	ENGLISH	18	
		Digital communication and Networking	2	BE/ B.TECH	ENGLISH	18	
		Structural Engineering	2	BE/ B.TECH	ENGLISH	18	
		Thermal Power Engineering	2	BE/ B.TECH	ENGLISH	18	
		Production Management	2	BE/ B.TECH	ENGLISH	18	
		MBA	3	ANY DEGREE	ENGLISH	60	
	Integrated Programmes/ PG	NA					
	Ph.D.						
	M.Phil.	NA					
	Certificate courses						
	UG Diploma						
	PG Diploma	NA					

[SELF STUDY REPORT]

Any Other (specify and provide details)

13. Does the college offer self-financed Programmes?YES ☐NO ☒

if yes, how many?

14. New programmes introduced in the college during the last five years if any?

NO

15. List the departments: (respond if applicable only and do not list facilities like Library, Physical Education as departments, unless they are also offering academic degree awarding programmes. Similarly, do not list the departments offering common compulsory subjects for all the programmes like English, regional languages etc.)

DEPARTMENT	UG	PG	RESEARCH
Civil engineering	✓	✓	✓
Mechanical Engineering	✓	✓	✓
Electrical & Electronics Engineering	✓		
Industrial Production Engineering	✓		
Electronics & Communication Engineering	✓	✓	✓
Computer Science & Engineering	✓	✓	✓
Information Science & Engineering	✓		
MBA		✓	

16. Number of Programmes offered under (Programme means a degree course like BA, BSc, MA, MCom...)

- a) annual system
b) semester system
c) trimester system

08

17. Number of Programmes with

- a) Choice Based Credit System
b) Inter/Multidisciplinary Approach
c) Any other (specify and provide details)

08

18. Does the college offer UG and/or PG programmes in Teacher Education?YES ☐NO ☒

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19. Does the college offer UG or PG programme in Physical Education?

YES

☐

NO

☒

20. Number of teaching and non-teaching positions in the Institution.

Positions	Teaching faculty						Non-teaching staff		Technical staff	
	Professor		Associate Professor		Assistant Professor					
	*M	*F	*M	*F	*M	*F	*M	*F	*M	*F
Sanctioned by the UGC / University / State Government										
Recruited	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Yet to recruit										
Sanctioned by the Management/ society or other authorized bodies										
Recruited	19	04	20	8	91	37	71	22	53	02
Yet to recruit	-	-	-	-	-	-	-	-	-	-

*M-Male *F-Female

21. Qualifications of the teaching staff:

Highest qualification	Professor		Associate Professor		Assistant Professor		Total
	M	F	M	F	M	F	
Permanent teachers							
Ph.D.	19	4		2	3	1	29
PG			20	7	69	26	122
D.Sc./D.Litt.							
M.Phil.			1			1	2
Temporary teachers							
Ph.D.							
PG					38	19	57
M.Phil.							
Part-time teachers							
Ph.D.							
PG							
M.Phil.							

*M-Male *F-Female

[SELF STUDY REPORT]**22. Number of Visiting Faculty /Guest Faculty engaged with the College****04****23. Furnish the number of the students admitted to the college during the last four academic years:**

Categories	2015-16		2014-15		2013-14		2012-13	
	M	F	M	F	M	F	M	F
SC	148	109	154	105	158	84	70	42
ST	93	112	76	64	67	57	37	24
OBC	1045	705	1043	627	1028	518	1269	598
General	510	295	760	444	664	490	543	310
Others	0	0	0	0	0	0	0	0

M-Male F-Female

24. Details on students enrolment in the college during the current academic year:

Type of students	UG	PG	M. Phil.	Ph.D.	Total
Students from the same state where the college is located	597	93			
Students from other states of India	17	0			
NRI students					
Foreign students					
Total	604	93			

25. Dropout rate in UG and PG (average of the last two batches)UG **02%**PG **0.5%****26. Unit Cost of Education**

(Unit cost = total annual recurring expenditure (actual) divided by total number of students enrolled)

a) including the salary component

Rs.15,15,36110/604=

Rs. 250887/-

b) excluding the salary component

Rs.2,97,45,958/604=

Rs.49248/-

27. Does the college offer any programme/s in distance education mode (DEP)?YES ☐NO ☒

28. Provide Teacher-student ratio for each of the programme/course offered

UG Programme		
Sl no	Programme	Teacher - Student ratio
1	Civil engineering	1:15
2	Mechanical Engineering	1:15
3	Electrical & Electronics Engineering	1:15
4	Industrial Production Engineering	1:15
5	Electronics & Communication Engineering	1:15
6	Computer Science & Engineering	1:15
7	Information Science & Engineering	1:15
8	Electronics & Instrumentation engineering	1:15
PG Course		
1	Master of Business Administration (MBA)	1:12
2	Computer Science & Engineering	1:12
3	Digital communication and Networking	1:12
4	Structural Engineering	1:12
5	Thermal Power Engineering	1:12
6	Production Management	1:12

29. Is the college applying for Accreditation?

Cycle 1 : *first accreditation*

30. Date of accreditation* (applicable for Cycle 2, Cycle 3, Cycle 4 and re-assessment only)

- NA -

31. Number of working days during the last academic year.

260 days

32. Number of teaching days during the last academic year

(Teaching days means days on which lectures were engaged excluding the examination days)

190 days

33. Date of establishment of Internal Quality Assurance Cell

(IQAC) IQAC..... (15/07/2017)

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34. Details regarding submission of Annual Quality Assurance Reports (AQAR) to NAAC.

AQAR (i) _____	(dd/mm/yyyy) – Not Applicable
AQAR (ii) _____	(dd/mm/yyyy) – Not Applicable
AQAR (iii) _____	(dd/mm/yyyy) – Not Applicable
AQAR (iv) _____	(dd/mm/yyyy) – Not Applicable

35. Any other relevant data (not covered above) the college would like to include.
(Do not include explanatory/descriptive information)

CRITERIA – WISE ANALYTICAL REPORT

CRITERION I: CURRICULAR ASPECTS**1.1 Curriculum Planning and Implementation**

- 1.1.1 State the vision, mission and objectives of the institution, and describe how these are communicated to the students, teachers, staff and other stakeholders.

VISION

To produce Professionally Excellent, Knowledgeable, Globally Competitive, Socially Responsible Engineers and Entrepreneurs.

MISSION

- ✓ To provide quality education in Engineering and Management.
- ✓ To establish a continuous Industry Institute Interaction, Participation, collaboration to contribute skilled Engineers.
- ✓ To build human values, social values, entrepreneur skills and professional ethics among the technocrats.
- ✓ To focus on innovation and development of technologies by engaging in cutting edge research areas.

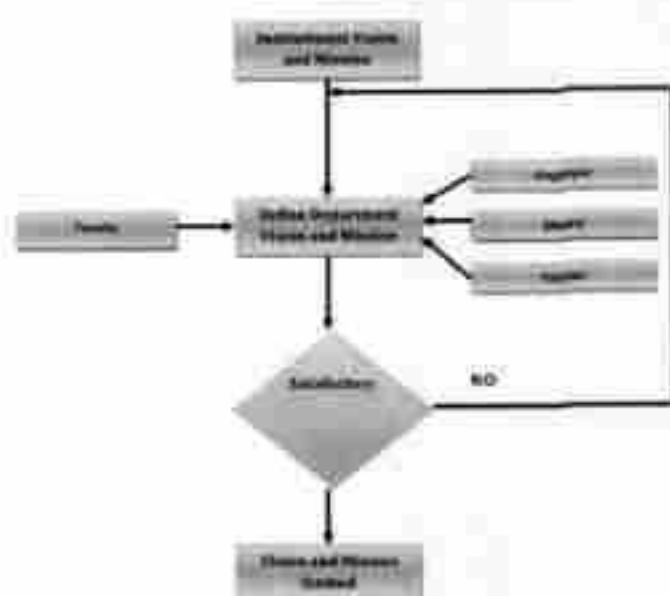
Process of Defining the VISION and MISSION

Fig 1.2 Process for Defining the Vision and the Mission

The Institution established the vision and mission through a consultative process involving both the internal and external stakeholders. Views collected are summarized and finalized in line with NBA, AICTE, VTU and V.V. Sangha. Processes for Defining the Vision and the Mission of the Department is shown in the above Fig.1.2

The Vision and Mission are published at

- Department website: <http://www.rymec.in/>
- Institute website: www.rymec.in
- On the cover pages of I A and assignment Books
- Departmental News Letter
- RYMEC CSI app
- Department staffroom & HOD Chamber.
- Department laboratories
- Department notice boards
- Class rooms
- Display Boards

The Vision and Mission are disseminated at

- Work Shops
- Seminars
- State Level Tech-Fest
- Conferences
- Faculty Development Programs
- Training Programs for Students

We convey Vision and Mission during the first day of each academic semester by HOD & respective class coordinators and also convey the same through departmental associations such departmental forum. Apart from these Vision and Mission are disseminated to all the stakeholders of the programme through faculty meetings, student awareness workshops, student induction programme, Alumni meetings and parent meetings.

1.1.2 How does the institution develop and deploy action plans for effective implementation of the curriculum? Give details of the process and substantiate through specific example(s).

- ✓ The institution follows the curriculum prescribed by the affiliating University, Visvesvaraya Technological University (VTU).
- ✓ The institution develops action plans for effective implementation of the curriculum prescribed by VTU.
- ✓ In the beginning of the academic year, the Academic dean prepares an academic calendar with the consultation of heads of various departments.
- ✓ The time table for the class work is prepared time table coordinator of the department and effective monitoring of the same is carried out by Course coordinator (CC).
- ✓ The seminars, assignments, internal assessments, unit tests as planned in the academic calendar are monitored by Internal test coordinator.

- ✓ Lesson plans and course files are maintained by each faculty for their respective subjects and are reviewed on a continuous basis by the HOD, program assessment committee (PAC) and the Principal.
- ✓ Mentor and mentee system is in place which helps the students to achieve their academic goals.
- ✓ The regular departmental, Class Teachers, Class representative HODs, Parents Teacher, PAC and CC meetings helps in taking suitable measures for the effective implementation of the academic process.
- ✓ The syllabus, question papers, notes, NPTEL materials, PPTs, lab manuals and videos for each subject are provided in the digital library which are downloadable.

1.1.3 What type of support (procedural and practical) do the teachers receive (from the University and/or institution) for effectively translating the curriculum and improving teaching practices?

- ✓ Being an affiliated institution, RYMEC follows the curriculum prescribed by the VTU which is well transacted to the students after serious preparation and critical thinking by seasoned academicians.
- ✓ The syllabus revision takes place once in four years for which University conducts Faculty Development Programme for the new subjects introduced in the syllabus.
- ✓ The Institute provides ample learning materials and other teaching and reference material like Journals, Magazines, High speed internet connectivity software, overhead projectors etc to enable its teachers to ensure effective delivery of curriculum.
- ✓ The institute encourages the faculty members to participate in national and international seminars, FDPs, workshops.
- ✓ The Institute has the Faculty Empowerment Strategy for the growth and development of the faculty.
- ✓ The institution encourages the faculty to pursue higher studies and to take up the research work individually or in collaboration.
- ✓ The staff members are given training on how to teach effectively using ICT. The Wipro Mission 10X experiential learning, the microteaching methodology, the project based

pedagogy, the development of innovative and creative learning modules are provided to improve teaching practices.

1.1.4 Specify the initiatives taken up or contribution made by the institution for effective curriculum delivery and transaction on the Curriculum provided by the affiliating University or other statutory agency.

Veerasaiva vidyavardaka sangha's Rao Bahadur Y Mahabaleswarappa Engineering College is committed to the basic causes of the education by providing all the support required for effective implementation of the policies through excellent infrastructure and financial support.

- ✓ The college relies on the universal method of teaching strategy which is the chalk and talk method. However creative and innovative methods of teaching are adapted for the effective delivery of the curriculum.
- ✓ All the departments are provided with LCD projectors and dedicated public addressed systems.
- ✓ Well planned academic calendar with schedules of academic, evaluation and extra- curricular events.
- ✓ Detailed course material, lesson plans, class notes, Question banks, Lab manuals, Model question papers are prepared by the faculty and are made available to the students.
- ✓ Slow learners are given special attention by conducting extra coaching for each subject and the fast learners are motivated through project based learning and quiz programs.
- ✓ The attendance registers are scrutinized by the Head of the department and the Principal once in a month to ensure coverage of topics as per syllabus and teaching schedules.
- ✓ Regular Class coordinators and course coordinators meetings are conducted by principal and HOD to review the teaching learning process, academic progress of the students, grievances if any, and suitable remedial measures are taken as and when necessary.
- ✓ Library maintains question banks which are used by faculty and students to become familiar with the pattern of examination.
- ✓ In addition to the regular subject classes, the college also organizes special lectures by inviting experts from various fields to share their knowledge and experiences with the students.

- ✓ The college organizes special Personality Development Programs for overall development of the student
- ✓ Project Exhibitions are organized for students to enhance the subject interest.

1.1.5 How does the institution network and interact with beneficiaries such as industry, research bodies and the university in effective operationalisation of the curriculum?

The college plans several activities in collaboration with industries to achieve the mission of the institution.

- ✓ Identification and facilitation of guest lectures, interactive workshops, Organisation of Conferences with the industry executives and eminent personalities as per the academic calendar planned by the institution at the beginning of semester.
- ✓ Establishing MoUs with various industries and institution.
- ✓ Wipro Mission 10X The faculty empowerment programme is conducted by Wipro industry executives to educate the staff member about innovative teaching methodologies.
- ✓ Institute has Research and Development Centre affiliated to VTU. The R&D centre has its network with various research bodies (DST, IEDC, NSTEDB, and VGST). Several projects are undertaken in niche areas in product development and design.

1.1.6 What are the contributions of the institution and/or its staff members to the development of the curriculum by the University?(number of staff members/departments represented on the Board of Studies, student feedback, teacher feedback, stakeholder feedback provided, specific suggestions etc.

The staff members of Rao Bahadur Y Mahabaleswarappa Engineering College contribute towards the development and implementation of curricular in many ways, some of the professors are BOS and BOE members.

The following faculty members of the Institute had been involved in the VTU work.

Sno	Faculty Name	Department	Involved in the VTU work
1	Dr.Hanumantha Reddy	CSE	BOE
2	Dr. Savitha Sonoli	ECE	BOE
3	Dr. Pradeep Jyothi	EHE	BOE
4	Dr. Kori Nagataj	MECH	BOE

5	Prof. Chendrashekar Hiregoudar	IP	BOE
6	Dr. Shashidara	EEE	BOE
7	Dr. Kuppagal Veeresh	MECH	BOE
8	Dr. Hiregoudar Yerranagoudar	MECH	BOE
9	Dr. A. Thimmana Gouda	MECH	BOS

The feedback from the students, parents, alumni and industry are collected and consolidated and the viewpoints/suggestions of stakeholders are communicated to university during the syllabus formation.

- 1.1.7 Does the institution develop curriculum for any of the courses offered (other than those under the purview of the affiliating university) by it? If 'yes', give details on the process ('Needs Assessment', design, development and planning) and the courses for which the curriculum has been developed.

-NO-

- 1.1.8 How does institution analyze/ensure that the stated objectives of curriculum are achieved in the course of implementation?

Academic Monitoring Committee ensures the successful completion of curriculum prescribed by the VTU. A syllabus coverage report is maintained by the institution which is regularly monitored by class coordinators and course coordinator. Whenever and wherever required, additional classes are provided to the students. A structured feedback mechanism is in place to obtain information about the performance of the system.

1.2 Academic Flexibility

- 1.2.1 Specifying the goals and objectives give details of the certificate/diploma/ skill development courses etc., offered by the institution.

The students are also trained on aptitude, logical reasoning, communication, group discussion and HR skills by Placement and Training department.

- 1.2.2 Does the institution offer programmes that facilitate winning /dual degree? If 'yes', give details.

-NO-

- 1.2.3 Give details on the various institutional provisions with reference to academic flexibility and how it has been helpful to

students in terms of skills development, academic mobility, progression to higher studies and improved potential for employability. Issues may cover the following and beyond:

- Range of Core / Elective options offered by the University and those opted by the college
- Choice Based Credit System and range of subject options
- Courses offered in modular form
- Credit transfer and accumulation facility
- Lateral and vertical mobility within and across programmes and courses
- Enrichment courses

In order to incorporate flexibility in syllabus the core and elective subjects are offered and the students have the flexibility to make a choice among the electives.

Range of Core / Elective options offered by the University and those opted by the college

- ✓ **Core Subject:** 89% of the subjects are core subjects from I to VIII semester for Under Graduate students and 62% of the subject are core subject for Post Graduate students prescribed by VTU. The students have to study these subjects as regular subjects.
(enclosed Annexure 1.4)
- ✓ **Electives:** Nearly 11% of the subjects are offered as Electives from VI to VIII semester for Under Graduate students and 38% of the subjects are offered as Electives from I to IV semester for Post Graduate students by VTU. The VTU gives a list of electives based on the industry requirement to provide an exposure on advanced technological developments. All departments have five groups in electives starting from six to eight semesters and the students can opt one elective from each group depending on their interest.
(enclosed Annexure 1.4)
- ✓ **Choice Based Credit System and range of subject options**
NIL
- ✓ **Courses offered in modular form**
There is no course offered in modular form and all the departments strictly follow the curriculum which is defined by the VTU.
- ✓ **Credit transfer and accumulation facility**
NIL
- ✓ **Lateral and vertical mobility within and across programmes and courses**
The Institution is affiliated to VTU which has flexibility for change of college in third and fifth semester and change of branch

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in third semester. To have these facilities the student has to clear all subjects without any current back logs. The diploma Students are directly admitted to third semester under lateral entry scheme.

- 1.2.4 Does the institution offer self-financed programmes? If 'yes', list them and indicate how they differ from other programmes, with reference to admission, curriculum, fee structure, teacher qualification, salary etc. All the programmes offered by the institute are self-financing. The following are the list of programmes offered in the institute:

	sno	Programme Name
UG PROGRAMMES 4 YEARS	1	COMPUTER SCIENCE & ENGINEERING
	2	ELECTRONICS & COMMUNICATION ENGINEERING
	3	ELECTRONICS & ELECTRICAL ENGINEERING
	4	MECHANICAL ENGINEERING
	5	CIVIL ENGINEERING
	6	INFORMATION SCIENCE & ENGINEERING
	7	INDUSTRIAL PRODUCTION & ENGINEERING
	8	ELECTRONICS & INSTRUMENTATION ENGINEERING
PG PROGRAMMES 2 YEARS	1	COMPUTER SCIENCE & ENGINEERING
	2	CIVIL STRUCTURAL ENGINEERING
	3	DIGITAL COMMUNICATIONS & NETWORKING
	4	THERMAL ENGINEERING
	5	PRODUCTION MANAGEMENT & ENGINEERING
PG PROGRAMME 3 YEARS		MASTER BUSINESS MANAGEMENT

- 1.2.5 Does the college provide additional skill oriented programmes, relevant to regional and global employment markets? If 'yes' provide details of such programme and the beneficiaries.

-NO-

- 1.2.6 Does the University provide for the flexibility of combining the conventional face-to-face and Distance Mode of Education for students to choose the courses/combination of their choice? If 'yes', how does the institution take advantage of such provision for the benefit of students?

-NO-

1.3 Curriculum Enrichment

- 1.3.1 Describe the efforts made by the institution to supplement the University's Curriculum to ensure that the academic programmes and Institution's goals and objectives are integrated?**

To supplement the University's curriculum, the institution encourages and provides regular industry oriented programmes, guest lectures, value added programmes, seminars and industrial visits.

- 1.3.2 What are the efforts made by the institution to enrich and organize the curriculum to enhance the experiences of the students so as to cope with the needs of the dynamic employment market?**

Being an affiliated institution we are bound to follow the guidelines prescribed by the university. University does not allow modifying or organizing the curriculum. However the institution has provided the additional training and hands on practice to the topics which is required for the dynamic employment market. The institution has formed an industry institution interaction cell to fill the gap between academia and the industry. The cell invites industry experts for the expert lecture, seminar, workshop etc, time to time to update their students and faculty members with the current happening of the world.

- 1.3.3 Enumerate the efforts made by the institution to integrate the cross cutting issues such as Gender, Climate Change, Environmental Education, Human Rights, ICT etc., into the curriculum?**

The Institution maintains a healthy environment and takes the necessary initiatives for the growth and development of its stakeholders. There are various committees in the institution to maintain the peace and harmony among the different class of the stakeholders.

- ✓ Sexual harassment prevention
- ✓ Anti-raging
- ✓ Green auditing
- ✓ ICT based learning
- ✓ Innovation And Entrepreneur Development Cell
- ✓ NSS activity
- ✓ Spiritual and Moral Courses
- ✓ Swachh Bharat Andolan and blood donation camp
- ✓ Yoga and sports activities

- 1.3.4 What are the various value-added courses/enrichment programmes offered to ensure holistic development of students?**

Moral and ethical values

- ✓ To ensure holistic development and to inculcate the moral and ethical values of students the VTU has offered a subject on

"Constitution of India and Professional Ethics" for engineering students.

Employable and life skills.

Pre placement training is the part of the curriculum provided by the institution to its students to enhance the employability skill which is required by the industry. Institution also conducts personality and communication skill development program as a part of regular pre placement training. Institution support its students to attend internship program provided by the industry.

Better career options

- ✓ Institution is the first nodal center of VTU to conduct "VTU mission
- ✓ Empowerment 10,000" to provide better career opportunity to graduates. The institution has established innovation and entrepreneur development cell supported by IEDC to promote the entrepreneurial skills required for the better career option. The institution has also established a full fledged multidisciplinary research center to promote research activity among student and faculty members where various projects funded by state and central government are being carried out.

Community orientation

The institution has provided free computer training programs to its surrounding students.

1.3.5 Citing a few examples enumerate on the extent of use of the feedback from stakeholders in enriching the curriculum?

The institute has a mechanism to obtain the feedback from all its stakeholders.

1.3.6 How does the institution monitor and evaluate the quality of its enrichment programmes?

Institution has PAC to monitor the day by day activity of academic process. The institution maintains an academic calendar where various meetings of all the levels of the institution are conducted to evaluate the academic activity.

1.4 Feedback System

1.4.1 What are the contributions of the institution in the design and development of the curriculum prepared by the University?

-NO-

1.4.2 Is there a formal mechanism to obtain feedback from students and stakeholders on Curriculum? If 'yes', how is it communicated to the University and made use internally for curriculum enrichment and introducing changes/new programmes?

Yes, the institute has a formal mechanism to obtain feedback from students and stakeholders which is communicated to the university and

also implemented at teaching and learning process at RYMEC. The following are the feedbacks obtained by the students and stakeholders:

- ✓ **Student Feedback:** The student feedback is obtained once in a semester i.e., after I internal test.
- ✓ **Alumni Feedback:** Alumni feedback is obtained during alumni function which is regularly conducted by RYMEC every year.
- ✓ **Parent's Feedback:** The Parent's feedback is obtained during parent's teacher's meeting.

1.4.3 How many new programmes/courses were introduced by the institution during the last four years? What was the rationale for introducing new courses/programmes?)

-No Courses introduced -

Any other relevant information regarding curricular aspects which the college would like to include.

CRITERION II: TEACHING - LEARNING AND EVALUATION**2.1 Student Enrolment and Profile****2.1.1 How does the college ensure publicity and transparency in the admission process?**

Rao Bahadur Y.Mahabaleswarappa Engineering College was established in 1980, under the aegis of the Veerasaiva Vidyavardhaka Sangha, Bellary. It is located in sprawling campus over 53 Acres of Land. Rao Bahadur Y.Mahabaleswarappa Engineering College has grown to one of the reputed Engineering Colleges in Karnataka and has contributed thousands of engineers to the society who have carved name for themselves in various fields in India and abroad. The institute adheres to the norms laid by VTU and AICTE. Also advertisements are given in leading English and Kannada dailies time to time.

2.1.2. Explain in detail the criteria adopted and process of admission (Ex. (i) merit (ii) common admission test conducted by state agencies and national agencies (iii) combination of merit and entrance test or merit, entrance test and interview (iv) any other) to various programmes of the Institution.

Admission to Undergraduate Programme:

- ✓ **Forty five percent (45%)** of the students are admitted through the Common Entrance Test conducted by Karnataka Examination Authority(KEA).
- ✓ **Thirty percent (30%)** of the admissions are through the entrance test conducted by Consortium of Medical, Engineering and Dental colleges of Karnataka (COMED-K).
- ✓ The remaining **twenty five percent (25%)** of the admissions are through Management Quota.
- ✓ Admission through KEA:

A candidate who has passed the qualifying examination, with Physics and Mathematics as compulsory subjects along with Chemistry / Bio-Technology / Biology / Electronics / Computer Science as optional subjects with English as one of the languages of study and obtained an aggregate minimum of 45% marks in the optional subjects in the qualifying examination, is eligible for Engineering / Technology courses; 40% of marks in qualifying examination. In case of SC, ST, Category-I and OBC Category candidates. Provided that, the marks obtained by the candidate in Bio-Technology / Biology / Electronics / Computer Science in the qualifying examination, will be considered in place of Chemistry, in case the marks obtained in Chemistry is less for required aggregate percentage, only for the purpose of determination of eligibility and not for the purpose of determination of rank, in respect of Engineering / Technology courses. Based on the performance of the candidates in Physics, Chemistry and Mathematics subjects in both Common Entrance Test and the Qualifying Examination by taking the marks in equal proportions, the Engineering

rank list will be prepared and published.

✓ **Admission through COMED-K:**

Both Karnataka and non-Karnataka candidates are eligible for admission under this quota. The qualifying examinations prescribed for admission for B.E. / B. Arch is second PUC or 10+2, Higher Secondary or equivalent examination recognized by State / Central Government; the last two years of study shall comprise of Physics, Chemistry and Mathematics with English as a

Compulsory subject. The General Merit candidates should have passed with a minimum aggregate of 45% marks (40% in respect of SC, ST and OBC candidates of Karnataka State in Physics, Chemistry and Mathematics) and should have passed these subjects individually. Physics and Mathematics are

Compulsory subjects along with Chemistry or Bio Technology or Biology or any other technical vocational courses as one of the optional subjects. However, changes, if any, in the eligibility criteria by the AICTE will be adopted.

✓ **Admission through Management Quota:**

Twenty five percent (25%) of the sanctioned intake is through this quota. Candidates who satisfy KEA eligibility criteria are eligible to be admitted under management quota.

✓ **Admission to Post-Graduate courses:**

For admission to M. Tech course, candidates need to qualify GATE or PG CET examination conducted by KEA. Candidates with a B.E/B. Tech degree in the relevant discipline with at least 50% marks in aggregate are eligible.

✓ **Admission to MBA/MCA:**

Admission is only through competitive entrance tests PG CET/COMED-K. It is open to candidates who have a 3-year bachelor's degree from a recognized university with not less than 50% marks in aggregate of all the years of the degree examination. In case of candidates from Karnataka belonging to SC/ST and Category-1, 45% of the marks in that subject are eligible for admission.

- 2.1.3. **Give the minimum and maximum percentage of marks for admission at entry level for each of the programmes offered by the college and provide a comparison with other colleges of the affiliating university within the city/district.**

The highest and the lowest KEA-CET ranks in all categories (GM, SC, ST, CAT-I, CAT-IIA, CAT-IIB, CAT-IIIA, CAT-IIIB and COMED-K) for all programs are reviewed to analyze the variation in the quality of students joining the institute. It is an indicator of the student's preference to the institution over other institutions in the region and the steps that need to be taken to further improve its position.

- 2.1.4 Is there a mechanism in the institution to review the admission process and student profiles annually? If 'yes' what is the outcome of such an effort and how has it contributed to the improvement of the process?**

Candidates who satisfy KEA eligibility criteria are eligible to be admitted under management quota

- 2.1.5 Reflecting on the strategies adopted to increase/improve access for following categories of students, enumerate on how the admission policy of the institution and its student profiles demonstrate/reflect the National commitment to diversity and inclusion.**

SC/ST and OBC:

Benefits are provided to the weaker sections of society as per the policies of state government. Students belonging to the SC/ST/OBC categories are admitted as per the norms of the State government. SC/ST students are provided with scholarship or fee reimbursement.

- **Women:**

Female population is approximately 60% and hence they take leading roles in almost all activities.

- **Different categories of persons with disabilities:** Persons with disabilities are taken due care

- **Economically weaker sections:**

Financially weaker students are supported with scholarships as per state government norms wherever applicable.

- **Minority community:**

Students from minority communities form an inseparable part of our student population.

- 2.1.6 Provide the following details for various programmes offered by the institution during the last four years and comment on the trends. I.e., reasons for increase / decrease and actions initiated for improvement.**

The admission to Rao Bahadur Y Mahabaleswarappa Engineering College showed a downward trend during the academic years 2013-14, 2015-16 and 2016-17. The problem was discussed at higher level. The decrease in admission is believed to be due to the following reasons.

- ✓ The overall intake to Engineering colleges to Karnataka has increased
- ✓ The intake to most of the engineering colleges in the vicinity of our institution has increased remarkably
- ✓ Decline in campus recruitments.
- ✓ The matter was discussed and the following remedial measures were taken.
- ✓ Fee concession/waiver for highly merited students.
- ✓ Strengthening Training & Placement activities.

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Student admission during the academic years
2016-2017, 2015-2016, 2014-2015, 2013-2014

YEAR	UG/ PG/ Ph.D	PROGRAMME											
		CSE			MECHANICAL			ECE			EEE		
		A	B	C	A	B	C	A	B	C	A	B	C
2016-2017	UG	120	112	93.3	120	114	95	120	103	85.8	120	94	78.3
	PG	18	12	66.6	18	4	22	18	4	22			
	Ph.D												
2015-2016	UG	120	111	92.5	120	120	100	120	094	78.3	120	93	77.5
	PG	18	10	55.5	18	2	12	18	07	38.8			
	Ph.D												
2014-2015	UG	120	109	90.8	120	120	100	120	109	90.8	120	109	90.8
	PG	18	16	88.8	18	14	77.7	18	12	66.6			
	Ph.D												
2013-2014	UG	120	105	87.5	120	120	100	120	096	80	120	115	95.83
	PG	18	16	88.8	18	18	100	18	16	88.8			
	Ph.D												

YEAR	UG/ PG/ Ph.D	PROGRAMME											
		IP			ISE			E&I			CIVIL		
		A	B	C	A	B	C	A	B	C	A	B	C
2016-2017	UG	40	0	0	60	0	0	40	0	0	120	116	96.6
	PG	18	12	66.6							18	17	94.4
	Ph.D												
2015-2016	UG	40	3	7.5	60	27	45	40	6	15	120	116	96.6
	PG	18	09	50							18	18	100
	Ph.D												
2014-2015	UG	40	3	7.5	60	40	66.6	40	15	37.5	120	117	97.5
	PG	18	14	77.7							18	17	94.4
	Ph.D												
2013-2014	UG	40	7	17.5	60	33	55.5	40	21	52.5	120	119	99.1
	PG	18	16	88.8							18	18	100
	Ph.D												

A-> APPLIED / AVAILABLE SEATS B->ADMITTED C->DEMAND RATIO

2.2 Catering to Student Diversity

2.2.1 How does the institution cater to the needs of differently-abled students and ensure adherence to government policies in this regard?

Policies adopted by Govt. of Karnataka/VTU for differently-able students are strictly followed.

2.2.2 Does the institution assess the students' needs in terms of knowledge

and skills before the commencement of the programme? If 'yes', give details on the process.

-NO-

2.2.3 What are the strategies adopted by the institution to bridge the knowledge gap of the enrolled students (Bridge/Remedial/ Add-on/Enrichment Courses, etc.) to enable them to cope with the programme of their choice?

Weaker students are identified from their internal test performance. Remedial classes are conducted for them by the concerned subject teachers. Normally one remedial class per week is conducted for difficult subjects. (enclosed Annexure 2.3)

2.2.4 How does the college sensitize its staff and students on issues such as gender, inclusion, environment etc.?

The college organizes seminars and talks on various current, societal issues. To sensitize the students about environment, programs are organized time to time. These include maintaining cleanliness in the college campus and surroundings, save water, save electricity etc. Also our college observes 'World Environment Day' every year on 05 June. 'Go Green' day was observed on 23 September 2011. An oath was taken by all to preserve nature and conserve energy. Plant saplings were gifted to Principal and faculty. Students participated enthusiastically and looked vibrant in green.

Recently, in response to the call given by the Prime Minister of India, our students and staff participated in 'Swachh Bharath Aandolan' by cleaning in the college campus.

Women's grievance committee is formed for the security, welfare and grievance redressal of women as per the instructions of Director of Technical Education. The committee is active in the institution which looks into the grievances of women and endeavours for a safe and secure women friendly atmosphere in the institution.

2.2.5 How does the institution identify and respond to special educational/learning needs of advanced learners?

Advanced learners are identified through their performance in VTU examinations, internal assessment tests, interaction in class rooms and labs, strength in basics, understanding and articulation abilities etc. The Institute fosters independent learning that contributes to their academic and personal growth.

- ✓ They are encouraged to answer special quiz programmes developed exclusively for them.
- ✓ They are encouraged to present their research findings in conferences
- ✓ They are encouraged to read journals available in the institute
- ✓ They are encouraged to utilize internet facility to take on-line tests and watch videos related to advanced topics

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- ✓ They are encouraged to work on industry defined problems and participate in competitions
- ✓ Encouraged to attend competitive events conducted by other colleges
- ✓ They are encouraged to take up competitive exams such as GRE, GATE, CAT, MAT etc.

2.2.6 How does the institute collect, analyze and use the data and information on the academic performance (through the programme duration) of the students at risk of drop out (students from the disadvantaged sections of society, physically challenged, slow learners, economically weaker sections etc. who may discontinue their studies if some sort of support is not provided)?

The institute has a good counselling system, where a group of ten students are assigned to a faculty. The counsellor monitors their performance, advises them, informs them about the institutional rules and informs the parents about their progress through report card and, if necessary, through telephonic conversations. Students who are at the risk of drop out are given special attention and are advised to take the most appropriate decision depending on the number of arrear subjects. The socially and economically disadvantaged students are supported with scholarships, fee reimbursement and concession facilities as per government rules.

2.3 Teaching-Learning Process

2.3.1 How does the college plan and organize the teaching, learning and evaluation schedules? (Academic calendar, teaching plan, evaluation blue print, etc.)

In the beginning of the semester, the Academic Monitoring Committee, in consultation with the Principal and also referring to the VTU academic calendar, prepares an academic calendar enlisting the working days, holidays, internal assessment test schedule and dates of important events in the semester. Based on this, each department prepares its own academic calendar adding dates for departmental events. Subject allotment is normally done well in advance such that faculty members, especially new comers, get sufficient time for preparation of necessary teaching aids. Once subject allotment is complete, the Concerned faculty member has to prepare the teaching plan as per the VTU syllabus, referring to departmental academic calendar. Internal Assessment tests are conducted strictly as per the guidelines of VTU, the affiliating University. Immediately after the test, the blue books are evaluated by the concerned faculty based on scheme of evaluation. Students are given an opportunity to see the books as well as the scheme of evaluation and seek clarifications, if any.

2.3.2 How does IQAC contribute to improve the teaching-learning process?

The Program assessment Committee (PAC) is monitoring committee plays a

major role in improving the teaching-learning process. The committee monitors each academic activity in the department and ensures that the same is taking place as per the schedule. The academic progress of the students, the marks scored in the internal assessments test as well as the attendance is communicated to the parents by the department. Further, slow learners are identified. The slow learners are instructed to attend remedial classes. As all these activities are monitored by the Program Assessment Committee, they take place effectively and in time. In brief, the PAC assures maintenance of quality in academic activities.

2.3.3 How is learning made more student-centric? Give details on the support structures and systems available for teachers to develop skills like interactive learning, collaborative learning and independent learning among the students?

Department library has a collection of teaching aids. Students can make use of the computer facilities available in the department to gain access to these materials and can gather plenty of information pertaining to a particular topic. This promotes independent learning habit among students. Group activities are encouraged among students to promote collaborative learning through Digital library, E-Library and wi-fi facilities at hostels this is one of the activities which could impress the students to a high degree

2.3.4 How does the institution nurture critical thinking, creativity and scientific temper among the students to transform them into life-long learners and innovators?

- Critical thinking habit of students is nurtured in the classroom itself. Each subject teacher has a questionnaire consisting of questions on his/her subject.
- These questions are mainly related to the fundamentals of the subject, framed in such a way that the students are forced to think and find out the answer.
- These questions were simple and silly superficial look, but have strong concepts/ideas hidden in them.
- Departments organize guest lectures by industrial experts and researchers. They deliver talks on various recent and interesting topics.

2.3.5 What are the technologies and facilities available and used by the faculty for effective teaching? Eg: Virtual laboratories, e-learning - resources from National Programme on Technology Enhanced Learning (NPTEL) and National Mission on Education through Information and Communication Technology (NME-ICT), open educational resources, mobile education, etc.

Departmental libraries have NPTEL materials on all important topics. Students can borrow CD/DVD on any particular topic from the departmental library and use the departmental computer facilities for learning purpose.

Virtual labs are also available on almost all subjects.

2.3.6 How are the students and faculty exposed to advanced level of knowledge and skills (blended learning, expert lectures, seminars, workshops etc.)?

- ✓ Each department conducts a meeting in the beginning of a semester to decide on the programmes to be conducted during the semester. This information is put in the calendar of events for the information of all concerned. Normally each department conducts one workshop, one seminar and a few guest lecturers in a semester. In addition to this, faculty members are encouraged to attend workshops, seminars and faculty development programmes conducted by other colleges and universities. Expenses for the event, TA/DA and other allowances are paid to the staff members in this regard.
- ✓ For the benefit of students, VTU conducts EDUSAT programme every semester. VTU announces the time table of this programme well in advance. Our seminar hall is equipped with necessary audio-visual facilities to conduct EDUSAT classes. For selected subjects, EDUSAT classes are held regularly.

2.3.7 Detail (process and the number of students benefitted) on the academic, personal and psycho-social support and guidance services (professional counselling/mentoring/academic advise) provided to students?

Students, in general, are counselled by faculty members. Generally, a group of ten students are allotted to a faculty member for counselling purpose. The counsellor monitors the academic progress of the students and counsels them for their academic growth. Faculty members counsel the students only in respect of their academic problems and are restricted from looking into their personal problems.

2.3.8 Provide details of innovative teaching approaches/methods adopted by the faculty during the last four years? What are the efforts made by the institution to encourage the faculty to adopt new and innovative approaches and the impact of such innovative practices on student learning?

Innovative teaching approaches are essential under the present circumstances to satisfactorily complete the university prescribed syllabus in time.

- ✓ Subject allotment is done at the end of a semester itself for the forthcoming semester such that faculty members get sufficient time for preparation of teaching aids.
- ✓ Course information file is given to each student in the beginning of the semester such that the student is aware of the topic going to be taught in a particular class.
- ✓ Power point presentations are available for all subjects for easy communication of complex concepts covering all difficult topics.
- ✓ Multiple choice questionnaire and quiz programmes are available for all important subjects.

- ✓ Group discussion among students on the topic covered in the class is encouraged during the last 10 minutes.
- ✓ Teachers are encouraged to make the class more interactive by asking questions to students in a pleasant, gentle and encouraging manner.
- ✓ Project work competition, technical exhibitions are organized.

2.3.9 How are library resources used to augment the teaching- learning process?

- ✓ Faculty members are encouraged to make use of the library facilities, especially e-learning facilities for teaching and research purposes.
- ✓ Library periods are normally included in class time-table such that students get sufficient time for exchanging books as well as for reference.
- ✓ A digital library is available with twenty systems having high speed internet connectivity for the benefit of students and staff.

2.3.10 Does the institution face any challenges in completing the curriculum within the planned time frame and calendar? If 'yes', elaborate on the challenges encountered and the institutional approaches to overcome these.

-NO-

2.3.11 How does the institute monitor and evaluate the quality of teaching learning?

Program Assessment Committee (PAC) has been constituted in the institution to achieve academic excellence. The main objective is to ensure the effective implementation of academic plan as specified by the affiliating university.

- ✓ The PAC primarily monitors the conduction of regular theory and practical classes, course completion, delivery mechanism, curriculum transaction and conduct of internal assessment tests
- ✓ The PAC ensures that departments are completing all the academic activities within the stipulated time as mentioned in the calendar of events
- ✓ The PAC ensures that the departments prepare all the required academic and administrative documents before commencement of the classes and are properly notified in time and brought to the notice of all concerned
- ✓ The PAC ensures that the departments are appropriately conducting internal assessment tests, evaluating the scripts and notifying the marks in the departmental notice boards
- ✓ The PAC ensures the proper execution of various activities mentioned in the university as well as college academic calendar
- ✓ The PAC collects reports from each department regarding the activities and performance of the department periodically
- ✓ The PAC ensures appropriate distribution of departmental workload.

2.4 Teacher Quality

2.4.1 Provide the following details and elaborate on the strategies adopted by the college in planning and management (recruitment and retention) of

its human resource (qualified and competent teachers) to meet the changing requirements of the curriculum

The recruitment of staff members to all cadres is based on the guidelines notified by UGC/ AICTE/VTU/State Government time to time.

- ✓ The recruitment procedure is carried out by the Human Resource Department of the institution. The selection is made by a competent selection committee duly constituted by the Principal which can ensure the selection of quality teachers.
- ✓ The selection committee normally consists of the Principal, Heads of Departments, internal and external subject experts and representatives from the Management.
- ✓ The recommendations of the Committee are forwarded to the President of institution for approval after which appointment orders are issued.
- ✓ Internal candidates are also permitted to apply for higher posts, provided they have requisite qualification and experience.
- ✓ The decision of the Management is final in all appointments. To improve the competency level of teachers, they are encouraged to participate in conferences, seminars and workshops conducted by various institutions. Also the institution accords top priority for utilizing e-resources which is a vast source of knowledge.

Highest Qualification	Professor		Associate professor		Assistant professor		Total
	male	female	male	female	male	female	
Permanent							
P.h.D	19	04		2	3	1	29
M.Tech/ME			20	6	67	24	117
B.E / MPHIL			1			1	2
Temporary							
P.h.D							
M.Tech/ME					24	13	37
B.Tech/BE							
Part-time teachers							
P.h.D	NIL						
M.Tech/ME							
B.Tech/BE							

- 2.4.2 How does the institution cope with the growing demand/ scarcity of qualified senior faculty to teach new programmes/ modern areas (emerging areas) of study being introduced (Biotechnology, IT, Bioinformatics etc.)? Provide details on the efforts made by the institution in this direction and the outcome during the last three years.

Our institution has all core branches of engineering and IT related branches like

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Computer Science & Engineering and Information Science and Engineering.

Institution has teaching staff strength of 213. To attract talented teachers, AICTE pay scales are given to all the eligible faculties.

Also facilities like allowances for taking part in seminars, workshops and conferences, maternity leave, hostel accommodation for faculty from far off places etc. are given to retain good faculty members.

- 2.4.3 **Providing details on staff development programmes during the last four years elaborate on the strategies adopted by the institution in enhancing the teacher quality.**

a) Nomination to staff development programmes

Academic Staff Development Programmes	Number of faculty nominated
Refresher courses	5
HRD programmes	-
Orientation programmes	4
Staff training conducted by the university	5
Staff training conducted by other institutions	20
Summer / winter schools, workshops, etc.	20

b) Faculty Training programmes organized by the institution to empower and enable the use of various tools and technology for improved teaching-learning

✓ Teaching learning methods/approaches

A seven day comprehensive workshop by Wipro, popular as Mission 10X, was conducted at our college during March-April. In addition to this many one-day workshops were also conducted for improving the quality of teaching of faculty members.

✓ Handling new curriculum

It is highly desirable to impart training to faculty members who are expected to handle newly introduced labs.

✓ Content/knowledge management

An office automation software is under development for managing students' database and other related operations. Our Central library has Library automation software which takes care of all major operations.

✓ Selection, development and use of enrichment materials

Learning materials are available in digital library which contains power point presentations, notes, questionnaires, videos etc. related to all subjects in the syllabus.

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✓ Assessment

✓ Cross cutting issues – NO –

✓ Audio Visual Aids/multimedia

Each departmental library and digital library has a collection of NPTEL videos and virtual lab links. Students can use department seminar halls having audio visual equipments for watching the above learning materials.

✓ Open Educational Resources

✓ Teaching learning material development, selection and use

A variety of teaching aids are developed by faculty members of the institution such as multiple choice questions, quiz programmes for normal and advanced learners, power point presentations and so on.

Teaching aids are available for all the subjects in the VTU syllabus.

e)Percentage of faculty

☐ invited as resource persons in Workshops / Seminars / Conferences organized by external professional agencies

10% of resource persons are invited for workshops , seminars and conferences

☐ participated in external Workshops / Seminars / Conferences recognized by national/ international professional bodies

20% faculties are participated in external workshops, seminars / conferences recognized by national / international professional bodies.

☐ presented papers in Workshops / Seminars / Conferences conducted or recognized by professional agencies

50% of faculties are presented papers in workshops or seminars conducted by professional agencies.

- 2.4.4 What policies/systems are in place to recharge teachers? (eg: providing research grants, study leave, support for research and academic publications teaching experience in other national institutions and specialized programmes industrial engagement etc.)**

The institution provides full supports to their faculty members for their overall growth and development. Following policies have been adopted by the institution.

Interested staff members are sponsored by the institution for seminars, workshops and conferences. All the expenses are met by the institution and the period of absence is treated as "ON DUTY". Also, faculties are deputed to short term/orientation courses during vacation or non-vacation days without hindrance to academic work meeting all expenses and treating the period of absence as "ON DUTY".

- 2.4.5 Give the number of faculty who received awards / recognition at the state, national and international level for excellence in teaching during the**

last four years. Enunciate how the institutional culture and environment contributed to such performance/achievement of the faculty.

-NO -

- 2.4.6 **Has the institution introduced evaluation of teachers by the students and external Peers? If yes, how is the evaluation used for improving the quality of the teaching-learning process?**

In a semester feedback is collected twice from students of each class. Further a summary report is prepared which shows the score of individual subject teachers. Teachers are permitted to utilize the information collected from students for self improvement.

2.5 Evaluation Process and Reforms

- 2.5.1 **How does the institution ensure that the stakeholders of the institution especially students and faculty are aware of the evaluation processes?**

All rules and regulations governing undergraduate/post graduate courses are mentioned in the corresponding 'Scheme and Syllabus' book supplied by VTU.

The syllabus book contains information on attendance requirement, internal assessment marks, eligibility for passing, maximum duration for course completion, promotion and eligibility to appear for examinations, electives, seminar & project, award of class at semester level, award of class at degree level, award of medals & ranks and transfer from one college to another college.

Internal Assessment test evaluation the procedure:

In the beginning of every semester, the course coordinator Committee, in consultation with the Principal, prepares the academic calendar which contains the internal assessment test schedule, date of publication of results, date of dispatch of wards report etc. The above information in the academic calendar are brought to the notice of the stakeholders by displaying it on notice boards. Once the evaluation process is complete, students are given an opportunity to see their answer scripts/blue books. In case any discrepancy is detected, the student can bring it to the notice of the teacher for appropriate action. Further, consolidated lists of IA marks and attendance are prepared followed by progress reports.

- 2.5.2 **What are the major evaluation reforms of the university that the institution has adopted and what are the reforms initiated by the institution on its own?**

The major evaluation reforms introduced by the university in the recent years are the following. On-line resume entry : First year students are required to enter their details to the VTU database. On-line entry of internal assessment marks: The final IA marks of the students are to be entered to VTU website during the period notified by the university. The concerned subject teacher has to enter the IA marks and the same is to be approved by the Principal. Once the Principal's approval is over, no alterations can be made to these marks under any circumstances.

On-line uploading of examination/reevaluation application forms: Examination/reevaluation applications are to be uploaded to VTU website during the period notified by the university. A printout of the receipt is kept in the department for future reference. Question Paper Delivery System: All VTU examination question papers are delivered through a highly secure data transfer system. Separate security codes are supplied to Chief Superintendent, external deputy chief superintendent and system operator by the University for downloading the question paper. The question paper can be downloaded only 30 minutes before the commencement of examination. Further, necessary copies of the same are made and packed. As per VTU guidelines, the entire process strictly takes place in a strong room exclusively meant for the purpose. Entry to the strong room is restricted to examination staff only. Digital evaluation of answer scripts: On completion of an examination, the answer scripts are immediately sent to the main VTU evaluation centre. These answer books are scanned to digital form and communicated to various branches to be evaluated by teachers. As the entire process is automated, the effort of the evaluator is reduced to a great extent. This system also avoids the difficulty in transporting the answer scripts to various evaluation branches and back.

Publication of results in website/ communication through SMS:

Students can get the result from website or by sending SMS to the university.

The major reforms introduced by the institution are the following.

The institution has a separate exam section with 10 systems of latest configuration having high speed internet access. Teachers use this section for on-line entry of IA marks and on-line uploading of examination application forms to VTU.

2.5.3 How does the institution ensure effective implementation of the evaluation reforms of the university and those initiated by the institution on its own?

The evaluation reforms specified by the affiliating university are to be followed strictly by each constituent college. The Academic Monitoring Committee supervises on-line entry of IA marks and on-line uploading of examination forms. An error committed is usually not tolerated by the university and there are penalty clauses. Hence the committee takes extreme care to avoid mistakes. As far QPDS is concerned, it is the combined responsibility of the Chief and External Deputy Chief Superintendents are responsible for maintaining confidentiality. Also the flying squad members of the university inspect the system during their visits. Hence the institution is forced to keep the system robust.

2.5.4 Provide details on the formative and summative assessment approaches adopted to measure student achievement. Cite a few examples which have positively impacted the system.

Departments maintain a history card for each student which contains information on his/her academic performance from first semester onwards.

History cards help the teacher in continuously monitoring the students such that appropriate action can be taken at the right time. There are remedial/add-on/bridge/enrichment courses designed for higher semester students also. The teacher-in-charge/class teacher can recommend a suitable course for each student in case it is necessary. The continuous evaluation process goes on till the final semester.

2.5.5 Detail on the significant improvements made in ensuring rigor and transparency in the internal assessment during the last four years and weightages assigned for the overall development of students (weightage for behavioural aspects, independent learning, communication skills etc.

The institution is affiliated to VTU and hence governed by its rules. As per norms, three internal assessment tests are conducted in a semester, the third being an improvement test. Questions for the IA tests are generally chosen from old VTU question papers. Evaluation is strictly as per the scheme prepared by the teacher who has set the question paper.

Internal test question paper is set for 25 marks and the time allotted is 1 hour 15 minutes. VTU examination pattern is followed in conducting IA tests. The evaluated blue books are shown to students for clarifications. Also the IA marks are displayed on notice board.

Proficiency in communication and independent learning habit help in scoring marks in Seminar and Project Work. A total of 150 IA marks is allotted to these two subjects.

A Monitoring Committee exists to resolve any issues of the students relating to internal assessment. Attendance is an integral part of the internal assessment. The teachers in our institution compensate attendance as per university guidelines for those students who participate in various institution programs.

2.5.6 What are the graduate attributes specified by the college/ affiliating university? How does the college ensure the attainment of these by the students?

NBA has identified eleven Graduate Attributes of Engineering which are referred to as program outcomes by Washington Accord. The institution is trying its best for attainment of these attributes by the students through its teaching, learning and evaluation processes.

2.5.7 What are the mechanisms for redressal of grievances with reference to evaluation both at the college and University level?

University has its own system for redressal of grievances. With reference to evaluation, if the student has scored less mark than expected, he/she can apply on-line for revaluation of his/her answer script after paying the prescribed fee. If the revaluation results are not satisfactory, the student can apply for challenge revaluation. Also the student can apply for a photocopy of his/her answer script. The photocopy is mailed to the id provided by the student. At institution level, grievances related to evaluation are normally redressed by the concerned teacher/Head of the Department/Principal depending on the

intensity of the problem.

2.6 Student performance and Learning Outcomes

2.6.1 Does the college have clearly stated learning outcomes? If 'yes' give details on how the students and staff are made aware of these?

Graduate Attributes are considered as the learning outcomes. Learning outcomes are displayed at all important locations in the college. Also the same is available in the college Website.

2.6.2 Enumerate on how the institution monitors and communicates the progress and performance of students through the duration of the course/programme?

Provide an analysis of the student's results/achievements (Programme/course wise for last four years) and explain the differences if any and patterns of achievement across the programmes/courses offered.

Parents are informed about the progress of the students through progress reports. In a semester three progress reports are sent to the parents, after the first IA tests, after the second IA tests and at the end of the semester respectively. The report card contains IA marks & Attendance in various subjects along with class teacher's remarks. The third report card has the final IA marks & attendance with Principal's remarks on eligibility to appear for the forthcoming examinations. The information regarding examination performance is communicated to parents by SMS.

2.6.3 How are the teaching, learning and assessment strategies of the institution structured to facilitate the achievement of the intended learning outcomes?

- Classroom sessions, lab sessions, mini-project, main project, seminar, interaction with R&D faculty, on-line quiz programmes, communication skill classes, participation in co-curricular activities etc make our students attain graduate attributes to a great extent.
- Classroom sessions, guest lectures and E-resources make the students knowledgeable and aware of the latest developments.
- Memberships in professional societies provide our students a good platform for exposure to an environment where innovative ideas are exchanged.
- As project work is a part of the curriculum, students are forced to explore innovative ideas. R&D department always provides opportunities to interested students to carry out project work. Hence, over a period of four years, students automatically attain the graduate attributes.

2.6.4 What are the measures/initiatives taken up by the institution to enhance the social and economic relevance (student placements,

entrepreneurship, innovation and research aptitude developed among students etc.) of the courses offered?

Training & Placement Cell of the institute provides placement training to all students. The Cell conducts classes in English language, comprehension, letter drafting etc. Also they conduct aptitude tests and mock interviews to boost the self confidence level of the students. One period per week is allotted for placement training from second year onwards. To promote talents in innovation and entrepreneurship, VTU approved R&D Centres plays a major role in promoting research and innovation.

- 2.6.5 How does the institution collect and analyze data on student performance and learning outcomes and use it for planning and overcoming barriers of learning?**

After an IA test, the results are analyzed to categorize the students in a class to slow, normal and fast learners. Slow learners are advised to undergo remedial classes whereas fast learners are guided in innovation-oriented activities. VTU results are also analyzed and the outcome is used for refining teaching-learning methods.

- 2.6.6 How does the institution monitor and ensure the achievement of learning outcomes?**

Meetings are conducted on a regular basis involving Management, Principal, Dean Academics, Heads of Departments, and Placement Officer to formulate strategies for achievement of learning outcomes by the students.

The capability level of a student is generally assessed based on the following parameters

- Marks scored by him/her in internal as well external examinations.
- Performance in aptitude tests, mock interviews and group discussions.

The assessment outcomes are used to give additional training to students who are lagging behind. The institution is trying its best to see that the students attain all graduate attributes. The results are visible through the alumnus occupying top positions in the society.

- 2.6.7 Does the institution and individual teacher use assessment/ evaluation outcomes as an indicator for evaluating student performance, achievement of learning objectives and planning? If 'yes' provide details on the process and cite a few examples.**

The institution uses assessment/evaluation outcomes as indicator for performance evaluation of the students. Assessment outcomes can be used for measuring the achievement of learning objectives.

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Any other relevant information regarding Teaching-Learning and Evaluation which the college would like to include.

CRITERION III: RESEARCH, CONSULTANCY AND EXTENSION**3.1 Promotion of Research**

- 3.1.1 Does the institution have recognized research center/s of the affiliating University or any other agency/organization?

YES:

Viveivārāya Technological University, Belagavi has granted permission to our college and is approved research centers for carrying out R&D activities under VTU, Belagavi. RYMEC is carrying out R&D activities in the various disciplines.

- COMPUTER SCIENCE & ENGINEERING.
- MECHANICAL ENGINEERING.
- CIVIL ENGINEERING.
- ELECTRONICS & COMMUNICATION ENGINEERING.
- DEPARTMENT OF PHYSICS.

- 3.1.2 Does the Institution have a research committee to monitor and address the issues of research? If so, what is its composition? Mention a few recommendations made by the committee for implementation and their impact.

YES:

The Institution has a Research Committee namely Research and Development Cell (R&D CELL) to promote Research Activities encouraging faculty members to publish papers in reputed journals and submitting proposals. It has been constituted to facilitate and monitor research projects and their related activities:

- 3.1.3 What are the measures taken by the institution to facilitate smooth progress and implementation of research schemes/ projects?

§ autonomy to the principal investigator

Principal Investigator (PI) has complete freedom to select the area of research and implement the project.

§ timely availability or release of resources

For the smooth completion of research work required manpower and other resources are made available as per the requirement.

§ Adequate Infrastructure and human resources.

The departments have established adequate lab facilities with necessary software and computing facilities to carryout research projects. The workload

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of the faculty will be adjusted to meet any such demand that requires his/her presence in a project.

§ Time-off, reduced teaching load, special leave etc. to teachers.

The special leaves and finance help to attend national and international conferences, exhibitions etc.

§ Support in terms of technology and information needs.

The Institution has dedicated internet facility of 10 Mbps with access to online journals from VTU consortium is made available to all faculty members, to facilitate research environment and interest amongst the teachers and students.

§ facilitate timely auditing and submission of utilization certificate to the funding authorities

The Institution carries out internal and external audit of funds provided various funding authorities on regular basis. A utilization certificate is thereby provided.

§any other:

- Faculties involved in research activities.

3.1.4 What are the efforts made by the institution in developing scientific temper and research culture and aptitude among students?

As part of its educational responsibility institution seeks to encourage and facilitate research. Those who carry out research either sponsored by or under the aegis of the Institution have responsibilities in turn toward the Institution. The principal investigator or coordinator possesses full powers to steer the research scheme/project in the required direction. Utilization certificate is submitted to the funding authorities as per schedule.

3.1.5 What are the efforts made by the institution in developing scientific temper and research culture and aptitude among students?

The Institution regularly conducts seminars, guest lectures and technical symposia etc., for the benefit of both students and the faculty members. International and national conferences on topics of global significance are organized to provide world-wide exposure in research areas to create curiosity among the faculty. Interaction with resource persons, luminaries, professors from national/international institutions enhance their knowledge levels for carrying out the research. Inculcating research in the mind of the student is the main motive of the Institution. As our Institution follows student centric

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teaching and learning process, there are lots of avenues for the students to interact with faculty for doing creative projects which will benefit students, to know the latest and future needs of the world.

To understand the present trend and to develop scientific temper and aptitude, the Institution organizes industrial visits, in plant training, internship for the students of all departments to interact with the industry. Moreover, the Institution updates its laboratories with latest equipments to create the zeal among students and encourages them to take up research as carrier.

- 3.1.6 Give details of workshops/ training programmes/sensitization programmes conducted/organized by the institution with focus on capacity building in terms of research and imbibing research culture among the staff and students.**

With the encouragement and motivational incentives provided by the Institution, a good number of faculties obtained their doctoral degrees and many have registered for Ph.D. Many of the faculty members are actively involved in research work and good numbers of papers are being published in national and international journals. As our Institution has been recognized as a research centre from VTU, faculty who got supervisor ship are now guiding research scholars.

- 3.1.7 Provide details of prioritized research areas and the expertise available with the institution.**

The academic research is organized in to following focused areas. Normally, these groups work on research problems with funding from various agencies. The faculty members of these groups supervise Ph.D. theses also. The faculty members of these groups are assisted by other academic faculty of allied specialization areas and research assistants.

- 3.1.8 Enumerate the efforts of the institution in attracting researchers of eminence to visit the campus and interact with teachers and students?**

Research committee of respective department is assigned the task of identifying eminent researchers and industry experts to visit respective department every semester and deliver a expert talk on research, innovation and opportunities.

- 3.1.9 What percentage of the faculty has utilized Sabbatical Leave for research activities? How has the provision contributed to improve the quality of research and imbibe research culture on the campus?**

[SELF STUDY REPORT]

OOD has been providing for all the researchers to attend the workshops/conferences and the college has been provided a week off for the research scholars to pursue their research.

3.1.10 Provide details of the initiatives taken up by the institution in creating awareness/advocating/transfer of relative findings of research of the institution and elsewhere to students and community (lab to land)

- Significant contributions made by staff and students in completing research projects; major achievements and publication details are printed and posted in the college notice boards.
- Students have been encouraged and sponsored to participate national and international conferences in presenting their work.
- The final year students of mechanical engineering designed and fabricated a Hybrid car which works on a technology that can improve the efficiency and boost the power comparing to normal petrol /gasoline engine.

3.2 Resource Mobilization for Research

3.2.1 What percentage of the total budget is earmarked for research? Give details of major heads of expenditure, financial allocation and actual utilization.

5% to 10% of total budget is allocated for Research and Development Activities.

3.2.2 Is there a provision in the institution to provide seed money to the faculty for research? If so, specify the amount disbursed and the percentage of the faculty that has availed the facility in the last four years?

3.2.3 What are the financial provisions made available to support student research projects by students?

College management has been support by Contingent amount for minor projects.

3.2.4 How does the various departments/units/staff of the institute interact in undertaking inter-disciplinary research? Cite examples of successful endeavors and challenges faced in organizing interdisciplinary research.

Research areas that are of interdisciplinary are discussed in research advisory committee meeting, committee members recommend the faculty members to be part of interdisciplinary research.

3.2.5 How does the institution ensure optimal use of various equipment and

[SELF STUDY REPORT]

research facilities of the institution by its staff and students?

The institute ensures that the resources in the department and R&D facility are made available in optimum for conduction of research. In each R&D center has computers with the required software's loaded. Students and staff members are allowed to use the facility with prior allotment and requests.

- 3.2.6 Has the institution received any special grants or finances from the industry or other beneficiary agency for developing research facility? If 'yes' give details.

In the last three years our college has received support in terms of funds, sponsorship under university programs from MNCs and research organizations for setting up of lab facility to carry out research work.

- 3.2.7 Enumerate the support provided to the faculty in securing research funds from various funding agencies, industry and other organizations. Provide details of ongoing and completed projects and grants received during the last four years.

Faculty members are encouraged to visit research organizations and interact with eminent scientists in understanding the trends in research. Faculty members from various departments are encouraged to participate in international conferences conducted by leading organizations in India. The primary objective of this is to get networked and know the latest trends in research and funding opportunities. Based on the feedback from faculty members and funding agency requirements proposals are prepared, reviewed and submitted.

Nature of the Project	Duration Year From To	Title of the project	Name of the funding agency	Total Grant		Total grant received till date
				Sanctioned	Received	
Minor Projects	2015-16	Student projects	KSCST	Rs.5000/-	Rs.5000/-	Rs.5000/-
Major projects	2013-14	Fuel from kitchen waste	VTU	Rs.25,00,000	Rs.25,00,000	Rs.25,00,000

[SELF STUDY REPORT]

Interdisciplinary projects	2015-2016	Aero modeling	SDM Dharwad	2 nd prize		
Industry sponsored	2015-16	Web based	KSCST -DIC	Rs.5000/-	Rs.5000/-	Rs.5000
Students' research projects	2015-16	Student projects	KSCST	Rs.30,000	Rs.30,000	Rs.30,000
Any other (specify)						

3.3 Research Facilities

3.3.1 What are the research facilities available to the students and research scholars within the campus?

Well established Library with internet and printer facility; availability of Text Books, Reference Books, Laboratories and computers are the facilities available for research work for the staff and students.

- Access to VTU consortium on E-Journals and E-books
- Image and Video Processing Lab.

3.3.2 What are the institutional strategies for planning, upgrading and creating infrastructural facilities to meet the needs of researchers especially in the new and emerging areas of research?

The strategy for upgrading and creating infrastructural facilities for research work.

- The lab setup would be utilized for carrying of research Projects.
- Applying for research proposals for up gradation of labs.
- Collaborative Research Work with other Universities.

3.3.3 Has the institution received any special grants or finances from the industry or other beneficiary agency for developing research facilities?? If 'yes', what are the instruments / facilities created during the last four years.

No. However, the College is putting all efforts to get special grants or finance from the industry or agency for developing research facilities.

3.3.4 What are the research facilities made available to the students and research scholars outside the campus / other research laboratories?

[SELF STUDY REPORT]

Our college has been associated with leading institutions, research facility and industries in carrying out collaborative activities.

3.3.5 Provide details on the library/ information resource center or any other facilities available specifically for the researchers?

Yes, the college has Digital library. Digital library is facilitated with 20 high end configured computers connected to 10 MBPS broadband connections. Head phones are provided for E-learning purpose. Library has provided web based innovative services which include Web Opac and several E – Resources such as Elsevier Science Direct, IEEE- All society periodicals e-Package (ASPP), ASCE Digital library, ASME Journals online, ASTM digital library online, Springerlink, McHraw hill access Engineering, JET: Journal in Engineering and technology, JSMS: J-Gate management sciences, Art and Architecture complete, GREENR, Emerald management and N-Digital library.

Digital library offers an institutional repository, Free E books/e-Journals, NISCAIR, Indian Academy of Sciences, E-Journals and open-Jgate and a CD/Video cassette collection of 500 CDs and 75 Video Cassettes. Every department has department library, with more than 300 books related to latest topics of engineering and technology.

3.3.6 What are the collaborative research facilities developed/ created by the research institutes in the college. For ex. Laboratories, library, instruments, computers, new technology etc.

Currently there is no research facilities established in association with other research institutions and VTU for establishing collaborative research facilities.

3.4 Research Publications and Awards

3.4.2 Does the Institute publish or partner in publication of research journal(s)? If 'yes', indicate the composition of the editorial board, publication policies and whether such publication is listed in any international database?

- NO -

3.4.3 Give details of publications by the faculty and students:

☐ Publication per faculty

☐ Number of papers published by faculty and students in peer reviewed journals

[SELF STUDY REPORT]

(national / international)

☐ Number of publications listed in International Database (for Eg: Web of Science, Scopus, Humanities International Complete, Dare Database - International Social Sciences Directory, IBSCO host, etc.)

☐ Monographs

☐ Chapter in Books

☐ Books Edited

☐ Books with ISBN/ISSN numbers with details of publishers

☐ Citation Index

☐ SNIP

☐ SJR

☐ Impact factor

☐ h-index

3.4.4 Provide details (if any) of

☐ research awards received by the faculty

- Received third prize for the final year student's project held a state level award prizes by Anveshana -2015 Karnataka, by government of Karnataka, February 26th -27th, 2015 at Bangalore. (Anveshana science and engineering fair) with the title: "Performance Evaluation of Turmeric Leaf Oil As An Alternative Fuel In SI Engine On Road Vehicle Using Fuel Energizer"
- Received first prize for the final year student's project held a state level award prizes for the **RUSI AWARD** by Rotary Bangalore Udyog and Standards International Precession Engineers PVT.LTD BANGALORE for the project work of the team of students of engineering colleges, for the year 2014-2015 on 2nd may 2015 at Kasia Auditorium, Kasia Udyog Bhavan, Vijayanagar, Bangalore with the title: "Performance Evaluation of Turmeric Leaf Oil On Road Vehicle Using Fuel Energizer"

☐ recognition received by the faculty from reputed professional bodies and agencies, nationally and internationally - NIL -

☐ incentives given to faculty for receiving state, national and international recognitions for research contributions. -NIL -

Management will provide incentives to faculty for research contribution. - NIL-

[SELF STUDY REPORT]

3.5 Consultancy

3.5.1 Give details of the systems and strategies for establishing institute-industry interface?

our college has initiative the following activities for establishing industry institute relations:

1. Invited Expert Lecture Series
 2. University Programs
 3. Project work & Internship programs for students
 4. Placement Services
- Conduct workshops and seminars on industry institute requirements
 - Create awareness among students on entrepreneurship and industry requirements
 - Industry experts are invited to be evaluators and guest speakers for the programs such as:
 - Campus entrepreneurship
 - Business plan for startups
 - Innovation design contest

3.5.2 What is the stated policy of the institution to promote consultancy? How is the available expertise advocated and publicized?

Our college strongly encourages consultancy activities among faculty members. Consultancy services range from internal equipment utilization to offering individual expertise to industries.

Our college formulated consultancy policy and is made available to all faculty members.

As per the our college policy consultancy is defined as the provision of any advice, information, "in-company" training and acting as subject matter expert for an external organization or other such professional service for a fee, except for activities in the following areas, whether paid or unpaid such as:

1. Reviewing publications
2. Member of editorial board
3. External examiners of other institutions or professional bodies
4. Advisory member of professional bodies and academic institutions
5. External consultancy to industries
6. Internal consultancy to departments or nodal centers within the institution
7. Private consultancy

[SELF STUDY REPORT]

3.5.3 How does the institution encourage the staff to utilize their expertise and available facilities for consultancy services?

Consultancy policy is in place to encourage faculty members in actively pursuing consultancy work. Research policy details provide more information. Our management encourages faculty to undertake consultancy with industries and other extramural agencies to promote intellectual exchange, spawn innovations and inventions, and extend their services to socially useful enterprise. Each request for consultancy will be examined based on the long-term benefit to the University. However, while undertaking consultancy, faculty members shall ensure that there is no adverse effect on the reputation and integrity of the institution and the commitment to academic duties is not compromised.

3.5.4 List the broad areas and major consultancy services provided by the institution and the revenue generated during the last four years.

Major areas:

1. Civil consultancy services
2. online examination

Revenue generated during the last four years.

Sl.no	Consultancy type	year	Amount
1	Online Examination	2016 - 17	Rs.4 lakhs
2	Online Examination	2015 -16	Rs.8 lakhs
3	Online Examination	2014 - 15	Rs.4.10 lakhs
4	Consultancy services	2015 - 16	Rs.6.32 lakhs
5	Consultancy services	2016-17	Rs.17.60 lakhs

3.5.5 What is the policy of the institution in sharing the income generated through consultancy (staff involved: Institution) and its use for institutional development?

As per the management policy the consultancy amount will share the income to the faculty, i.e., 30% amount for institution and 70% amount for faculties.

3.6 Extension Activities and Institutional Social Responsibility (ISR)

3.6.1 How does the institution promote institution-neighborhood- community network and student engagement, contributing to good citizenship, service orientation and holistic development of students?

Our college has created core groups consisting of students and faculty members and is instructed to initiate and execute institution community network and engage in service orientation programs. Few of the initiatives are:

- Annual Blood Donation Camp

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- Spoken English classes regularly
- Skill Development programmes
- Blood Donation Camp
- Plantation
- Health (General, Dental, Etc.)
- Self Employment Programme
- Intercollegiate competition such as Kabbadi, Basket ball and cricket tournament for pre secondary students

3.6.2 What is the Institutional mechanism to track students' involvement in various social movements / activities which promote citizenship roles?

The core team created for social responsibility creates data base of all students and their activities for monitoring the student's involvement. Also during alumni meet the social responsibility activities undertaken by students are recorded. Programs such as fresher's day and college day (MANDARA) are being organized for promoting cultural and technical activities. Our college believes in fostering student's "talent in a variety of disciplines and encourages a host of cultural activities including dramatics, singing, dancing, quiz, debates, music and more. Students participate in various inter-collegiate competitions, showcase their talent and consistently win awards.

Our college over the last three years is active in using the social media such as Face book and LinkedIn. There are more than 500 followers of Our college Face book account that is actively updated on regular basis every day. Students and alumna's are the members of Face book. The major activities taken up by students are being posted on Face book account. The alumni meeting that is organized every year at Our college campus invites passed out students and existing students for a gathering. During which the data base of student's active participation in social and other activities are recorded.

3.6.3 How does the institution solicit stakeholder perception on the overall performance and quality of the institution?

Governing council meeting, research advisory committee meeting and meeting with management, staff and students are regularly conducted to apprise them about the progress work and road map of the institution and R&D centre.

3.6.4 How does the institution plan and organize its extension and outreach programmes? Providing the budgetary details for last four years, list the major extension and outreach programmes and their impact on the overall development of students.

-NONE-

3.6.5 How does the institution promote the participation of students and faculty in extension activities including participation in NSS, NCC, YRC and other

[SELF STUDY REPORT]

National/ International agencies?

College has started NSS and has communicated with VTU for establishing NSS unit and for funding support.

- 3.6.6 Give details on social surveys, research or extension work (if any) undertaken by the college to ensure social justice and empower students from under-privileged and vulnerable sections of society?**

Various schemes are being floated by the management to support underprivileged students and to ensure social justice. Books distribution to the neighbor primary school and free computer programs has been undertaken.

- 3.6.7 Reflecting on objectives and expected outcomes of the extension activities organized by the institution, comment on how they complement students' academic learning experience and specify the values and skills inculcated.**

The extension activities organized by the Institute will imbibe the social responsibilities of a graduate, which will reflect their commitment to societal needs.

- 3.6.8 How does the institution ensure the involvement of the community in its reach out activities and contribute to the community development? Detail on the initiatives of the institution that encourage community participation in its activities?**

Nearby village, the students are provided food for independence day and children's day and the students are also motivated through various games.

- 3.6.9 Give details on the constructive relationships forged (if any) with other institutions of the locality for working on various outreach and extension activities.**

- NIL -

- 3.6.10 Give details of awards received by the institution for extension activities and/contributions to the social/community development during the last four years.**

None

3.7 Collaboration

- 3.7.1 How does the institution collaborate and interact with research laboratories, institutes and industry for research activities. Cite examples and benefits accrued of the initiatives - collaborative research, staff exchange, sharing**

[SELF STUDY REPORT]

facilities and equipment, research scholarships etc.

MOUs with various industries and research organizations have been signed to carry out research activities.

- 3.7.2 Provide details on the MoUs/collaborative arrangements (if any) with institutions of national importance/other universities/ industries/Corporate (Corporate entities) etc, and how they have contributed to the development of the institution.

MOUs with various industries and institutions have been carried out at our college for development of R&D activities.

- Internships to students for carrying out project work
- Product development and commercialization of developed project works

Refer (Annexure) for the details of MOUs.

- 3.7.3 Give details (if any) on the industry-institution-community interactions that have contributed to the establishment / creation/up-gradation of academic facilities, student and staff support, infrastructure facilities of the institution viz. laboratories / library/ new technology /placement services etc.

Industry specific courses are being offered to impart industry skills to students from VTU and provide them placement services.

- 3.7.4 Highlighting the names of eminent scientists/participants who contributed to the events, provide details of national and international conferences organized by the college during the last four years.

1. Dr. K Chidananda gouda , former VC, Kuvempu university.
2. Dr. Guru Prasad, Professor , B.M.S college, Banagalore
- 3.Dr. Basavaraj ketegere, Principal , KLETT, Belagavi.

- 3.7.5 How many of the linkages/collaborations have actually resulted in formal MoUs and agreements ? List out the activities and beneficiaries and cite examples (if any) of the established linkages that enhanced and/or facilitated

Internship/ On-the-job training Some companies have accepted UG interns to pursue their final year BE project and PG projects. Student training is conducted by various companies for imparting skills as per industry requirements.

- 3.7.6 Detail on the systemic efforts of the institution in planning, establishing and implementing the initiatives of the linkages/ collaborations.

[SELF STUDY REPORT]

Research Advisory Committee meetings conducted every year reviews the progress work and also monitors the outcomes of MOUs regularly. Every Research Advisory Committee meeting conducted highlights the major action plans for the academic year and ensures that the institution focuses in achieving these action items. The Principal and Dean (R&D) are made responsible for meeting the research goals of the institution. Dedicated team is formulated to actively pursue research, consultancy and collaborative activities.

Any other relevant information regarding Research, Consultancy and Extension which the college would like to include.

CRITERION IV: INFRASTRUCTURE AND LEARNING RESOURCES**4.1 Physical Facilities****4.1.1 What is the policy of the Institution for creation and enhancement of infrastructure that facilitate effective teaching and learning?**

The College has established policies and procedures to create the infrastructure at par with the standards and norms of AICTE, VTU, with respect to human resources (Faculty, Technical and Administrative staff), laboratory equipment, built-up place, learning resources, (print and electronic and teaching learning aids). Whenever variation intake and new courses are introduced. The Policy regarding the infrastructure requirements are planned accordingly.

- To plan for class rooms as per the requirements.
- To establish laboratory as per the syllabus.
- To have seminar halls & board rooms.
- To provide amenities like canteen, transport, playgrounds etc.
- To establish class rooms and laboratories for newly sanctioned departments.
- To include infrastructure to accommodate the increase in student strength in the existing departments.
- To purchase books in central library and departmental library to meet the requirements.

The infrastructure required is planned by various departments and annual budget is prepared. After getting the approval from the Chairman necessary actions are initiated. The following guidelines are followed to finalize the purchase procedure: HODs will submit their requirements along with the budget estimation for the academic year by June / July to the Principal. HODs through lab in charges will call for quotations for the equipments and prepare the comparative statement. concerned HOD and the faculty coordinator after relevant discussions will forward the purchase request with the approval of Principal to the Management. The purchase order shall be placed by the Management to the respective company. After receiving the equipment along with the bill, the department will test and verify as per specifications mentioned in the purchase order. If the department is satisfied with the equipment, the bills will be passed after duly entering into stock registers and the bills will be sent to the office for payment. The office after receiving the bills enters in to the central stock register and clears the bills. The department shall maintain copy of all the correspondences and to make entry in separate stock registers for recurring and non-recurring items for each laboratory.

4.1.2 Detail the facilities available for

a) Curricular and co-curricular activities – classrooms, technology enabled learning spaces, seminar halls, tutorial spaces, laboratories, botanical garden, Animal house, specialized facilities and equipment for teaching, learning and research etc.

Details of class rooms, tutorial rooms, seminar halls and laboratories

Sl no	Type	Nos.	Area
1	Class Room	55	5335.81
2	Laboratories	52	6181.38
3	Workshops	1	440
4	Tutorial Room	10	330
5	Computer Center	1	129
6	Library & Reading Room	1	927.84
7	Digital Library	1	200
8	R & D Block	1	100
9	Placement Cell	1	38
10	EDP Cell	-	-
11	Seminar Hall	2	360.1
12	Language Lab	1	78.2
13	Internet Center	1	100.5
14	Common Room Boys	1	66
15	Common Room Girls	1	170

b)Extra-curricular activities – sports, outdoor and indoor games, gymnasium, auditorium, NSS, NCC, cultural activities, Public speaking, communication skills development, yoga, health and hygiene etc.

Sports (outdoor and indoor games), gymnasium:

- Students are encouraged to take part in sports activities after the college hours.
- College teams are formed to take part in VTU competitions and other intercollegiate competitions.
- Sports event competitions are conducted in the interdepartmental level in a academic year and the winners are awarded.
- Qualified Physical Director has been appointed to look after the day to day games and sports activities of the college
- The outdoor games such as Ball and shuttle badminton, volley ball, throw ball, cricket, football, kabaddi, Basket ball and hand ball etc. are available.
- A separate indoor games facility for playing table-tennis, caroms and chess and Gym is provided and it is being used by the students regularly.

Auditorium:

- The college has both an open auditorium with a seating capacity of 3000 and indoor auditorium with seating capacity of 600 with audio and video facilities. All the college events are regularly conducted in this auditorium.

Cultural activities:

- Students are encouraged to participate in the cultural events in the college day program.
- Interdepartmental academic competitions are conducted to enhance the talents of students.

Communication Skills Development:

- All the branches of first year students are taken care by our MBA

department and individual faculties of each department by conducting classes weekly one hour to improve their communication skills.

NSS:

- The programme aims to inculcate social welfare in students, and to provide service to society without bias. NSS volunteers work to ensure that everyone who is needy gets help to enhance their standard of living and lead a life of dignity. In doing so, volunteers learn from people in villages how to lead a good life despite a scarcity of resources. It also provides help in natural and man-made disasters by providing food, clothing and first aid to the disaster victims.
- Conducting blood donation camps.

4.1.3 **How does the institution plan and ensure that the available infrastructure is in line with its academic growth and is optimally utilized? Give specific examples of the facilities developed/augmented and the amount spent during the last four years (Enclose the Master Plan of the Institution / campus and indicate the existing physical infrastructure and the future planned expansions if any).**

- Institution has the infrastructure as per the norms of AICTE and VTU. As the intake has been increased, to meet the academic requirement new building block has been constructed as per the enhanced intake.
- As per the enhancement and introduction of new programs the required infrastructure and laboratories are setup.

4.1.4 **How does the institution ensure that the infrastructure facilities meet the requirements of students with physical disabilities?**

The institute follows the guidelines laid down by VTU & AICTE. With respect to physically challenged students.

4.1.5 **Give details on the residential facility and various provisions available within them:**

Hostel Facility – Accommodation available

Accommodation is available separately for boys and girls.

Recreational facilities, gymnasium, yoga centre, etc.

We have spacious gymnasium and yoga centers for the college students.

- Basket ball
- Throw ball
- Shuttle
- Caroms
- Chess
- Table Tennis

Computer facility including access to internet in hostel

High Speed 20mbps Internet facility is available for both hostels (boys and girls) & Wi-Fi facility is in the campus and hostels.

Facilities for medical emergencies:

- Dispensary is available in college campus and college is very near to VIMS (vijayanagar institute of medical science).
- Students are covered under student safety insurance scheme.

Library facility in the hostels

- Library facility is available in the hostel with news papers & magazines.

Internet and Wi-Fi facility

- High Speed 20MBPS Internet facility with Wi-Fi connectivity is available in the campus.

Recreational facility-common room with audio-visual equipments

- Television, LCD, Sound Systems is available

Available residential facility for the staff and occupancy Constant supply of safe drinking water

- Blue Star, Aqua guards are provided for safe drinking water at hostels & canteen and other required places.

Security

- Round the clock security is available for hostels & college.

4.1.6 What are the provisions made available to students and staff in terms of health care on the campus and off the campus?

- Dispensary is available in campus for staff & students for treatment.
- For emergency cases ambulance is available to reach the nearest hospital.
- Students are covered under student safety insurance scheme.
- Health awareness camps, Blood donation camps are organized regularly.

4.1.7 Give details of the Common Facilities available on the campus –spaces for special units like IQAC, Grievance Redressal unit, Women's Cell, Counselling and Career Guidance, Placement Unit, Health Centre, Canteen, recreational spaces for staff and students, safe drinking water facility, auditorium, etc.

IQAC: constituted on 15-7-2017 : 10:30 am at principal chamber ; chief guest was Dr. Manjaiah, Dean, Mangalore University.

Department Advisory committee (DAC) has been constituted by the institution to monitor and suggest to improving the quality of the students.

Grievance redressal committee :

Grievance redressal committee is headed by one of the senior professor as chairman along with staff as members.

Women's Cell

Sexual harassment prevention committee has been constituted in the campus to deal with the Women's problem.

Counselling and Career Guidance:

Every faculty member in the department is associated with 10 to 20 students to counsel their academics as well as the other problems.

The faculty members will discuss with the parents of the wards with respect to attendance, academic performance and discipline, and reports to the HOD & Principal for necessary counselling and suitable action.

Placement and training:

The college is headed by a Placement & Training Officer with one staff from each department as members.

Health Centre:

- The College maintains a medical centre with a doctor to treat the students and staff of the college for any minor disease.
- Ambulance is available for emergency service to VIMS Hospital.

Canteen:

- Hygienic food facility is available in the canteen with a seating capacity of more than 100.

Recreational spaces for staff and students:

- Indoor games are available for both staff and students.
- In the hostels, recreation rooms are provided with audio and video facilities.
- Gymnasium is available for the students.
- Safe drinking water facility:
- Purified water is supplied to all academic blocks, canteen and hostels.
- Storage capacity : 1 Lakh Litres
- Filtering capacity: 2500 litres/day
- Water Treatment : RO membrane type
- Usage water Storage tanks
- Overhead tanks in every building
- Drinking water supply: filtered fresh water
- Water availability in hostel : 24 hours
- Method of distribution of water : continuous supply
- No. of coolers in college: 5

Auditorium:

- The college has both an open auditorium with a seating capacity of 3000 and indoor auditorium with seating capacity of 600 with audio and video facilities. All the college events are regularly conducted in this auditorium.

4.2 Library as a Learning Resource

4.2.1 Does the library have an Advisory Committee? Specify the composition of such a committee. What significant initiatives have been implemented by the committee to render the library, student/user friendly?

Sl no	Staff name	Role
1	Dr. Hiregoudaru Yerranna gouda	Chairman
2	Dr.T.Hanumantha Reddy	Member
3	Dr.B.Sreepathi	Member
4	Dr.Savitha Sonoli	Member
5	Dr.S.M Shashidhar	Member
6	Mrs.Rakhee Patil	Member
7	Dr. Mallikarjuna	Member
8	Dr.KotiNagaraj	Member
9	Dr.A.Thimmana Gouda	Member
10	Dr.Shaheda banu	Member
11	Dr.Jeevargi Phakirappa	Member
12	Dr.Hiremath Suresh Babu	Member

13	Dr.N.M.Nagabhushan	Member
14	Sri Vishwanatha Reddy .M	Member

Initiatives have been taken by the committee

- Book selection committee Department level constituted.
- Infrastructure development.
- Conduction of awareness program at department level.

4.2.2 Provide details of the following:

- Total area of the library (in Sq. Mts.) **1020 sqm**
- Total seating capacity : 150
- Working hours (on working days, on holidays, before examination days, during examination days, during vacation)
 Working Days 8:00 am to 5.30 pm
 Examination Days 8:00 am to 8:00 pm
 On Holidays Closed
- Layout of the library (individual reading carrels, lounge area for browsing and relaxed reading, IT zone for accessing e-resources)
 Enclosed

4.2.3 How does the library ensure purchase and use of current titles, print and e-journals and other reading materials? Specify the amount spent on procuring new books, journals and e-resources during the last four years.

Library holdings	2016-17		2015 -2016		2014-2015		2013 -2014	
	Number	Total Cost	Number	Total Cost	Number	Total Cost	Number	Total Cost
Text books	8075	25,44,947	2014	7,46,165	7844	25,34,683	4349	11,65,857
Reference Books	622	2,58,043	1196	5,77,397	349	1,42,084	155	34,939
Journals/ Periodicals	149	3,50,471	149	3,99,324	90	2,46,279	51	1,46,299
e-resources	07	9,96,000	07	1,51,300	06	1,30,8022	05	8,09,825
Any other	-	-	-	-	01	4,72,500	-	-

4.2.4 Provide details on the ICT and other tools deployed to provide maximum access to the library collection?

- OPAC
Yes - Available-
- Electronic Resource Management package for e-journals
Yes - Available - KNIMBUS
- Federated searching tools to search articles in multiple databases
Yes - Available - KNIMUS
- Library Website

www.rymec.in/Library.aspx

- In-house/remote access to e-publications : Yes – Available - KNIMBUS
- Library automation : EasyLib
- Total number of computers for public access : 25
- Total numbers of printers for public access : 01
- Internet band width/ speed : 10mbps/40Gb
- Institutional Repository : Digital Library
- Content management system for e-learning : Digital Library
- Participation in Resource sharing networks/consortia (like Inlibnet) : VTU E-Consortia

4.2.5 Provide details on the following items:

- Average number of walk-ins : **13618.33/Per Annum (2014-2016)**
(17998+18364+20693)/3
- Average number of books issued/returned : **1,10,046.33 / Per Annum ((2014-2016))**
(119160+104928+106051)/3
- Ratio of library books to students enrolled : **2921.33 (2013-14 to 2015-16)**
(2927+3095+2742)/3
- Average number of books added during last three years: **6700 (2013-14 to 2016-17)**
- Average number of login to opac (OPAC) - **Not Available**
- Average number of login to e-resources - **Not Available**
- Average number of e-resources downloaded/printed - **Not Available**
- Number of information literacy trainings organized -**43**
- Details of “weeding out” of books and other materials
Total 30969 Books are discarded and withdrawn from library stack

4.2.6 Give details of the specialized services provided by the library

- Manuscripts : No
- Reference : Yes
- Reprography : Yes

•ILL (Inter Library Loan Service) : Yes - DELNET

•Information deployment and notification (Information Deployment and Notification)

•Download : Yes

•Printing : No

•Reading list/ Bibliography compilation : No

•In-house/remote access to e-resources: Yes

•User Orientation and awareness : Yes

•Assistance in searching Databases : Yes

•INFLIBNET/IUC facilities : No

4.2.7 Enumerate on the support provided by the Library staff to the students and teachers of the college.

The library staff is dedicated to help the students to find and use the information that they need for all of their academic work.

4.2.8 What are the special facilities offered by the library to the visually/physically challenged persons? Give details.

NIL

4.2.9 Does the library get the feedback from its users? If yes, how is it analyzed and used for improving the library services. (What strategies are deployed by the Library to collect feedback from users? How is the feedback analyzed and used for further improvement of the library services?)

Yes library got feedback form for its users like students, parents for improving the library services. Feedback forms and analysis forms are enclosed.

4.3 IT Infrastructure

4.3.1 Give details on the computing facility available (hardware and software) at the institution.

•Number of computers with Configuration (provide actual number with exact configuration of each available system)

At present 900 high configuration systems are available in the college.

•Computer-student ratio

1:4 (FOR UG) 1:2 (FOR PG)

•Stand alone facility

•LAN facility

LAN facility Yes,

- Speed - 100mbps.
- Backbone: Fiber single.
- Backbone Speed: Megabyte/Gigabyte.
- Network connectivity Redundancy: Fiber +
- RF Connectivity between line of sight blocks.
- Core Switch: Gigabyte 24 port switch.
- Edge Switch: 8/16/24 Layer 38 Switches which include both Megabit/Gigabit Managed Switches and unmanaged switches.
- Topology: Star.
- Wifi facility
- Yes, 20 Mbps, Provided to all the staff, students and Guests.
- Licensed software
- Yes, available as per AICTE / VTU norms
- Number of nodes/ computers with Internet facility
- More than 500 systems connected with internet facility
- Any other

4.3.2 Detail on the computer and internet facility made available to the faculty and students on the campus and off-campus?

Central Computing Facility available in the campus, the computer facility also extended in boys and girls hostels. These facilities are utilized by faculty as well students:

- Internal / External Communication by email
- Research work/ e-Resources
- Preparation of Teaching / Learning material
- Students use NPTEL learning materials.

Wi-Fi facility is provided for the students to work in their laptops both in campus and hostels.

- Computers are provided for Faculty with internet facility.

Systems provided with internet facility.

- 50 systems are provided with Internet facility in the Central Computing centre.
- 20 systems are provided with Internet facility in the facility. Central Library.
The Principal's Office, Administrative Office, Examination Section, Training and Placement cell and Senior Faculty member cabins are provided with Internet
- One Lap top has been provided to each department.

Un-interrupted power supply (UPS) is made available in the campus so that the students and staff can access the internet without any interruption.

4.3.3 What are the institutional plans and strategies for deploying and upgrading the IT infrastructure and associated facilities?

The website has been hosted in the server managed by the external agency. The college has an authority to update, modify and publish the contents. The contents will be published after approval from Principal by website coordinator.

- IT infrastructure and associated facilities have been augmented periodically as when and there is a requirement and also to introduce new technology to the student and faculty.
- Computer systems are upgraded with latest configuration as per the need and requirements of the various departments.
- Virtual laboratories are set up in R&D dept in accordance with advancement of technology.
- Enough provision is made available in the annual budgets for the procurement of the computer systems. Once new systems are procured, they replace with the existing systems as per the requirements of the departments.

Services and Maintenance:

- All the computer systems in the campus are regularly monitored by the system Administrator and maintenance staff.
 - In case of major problems i.e. replacement of component/part during warranty they are sent to the respective service centers and got replaced at the earliest.
 - Optical Fiber connectivity to be established in the CAMPUS.
- All the Class rooms will be developed for E-Learning facilities.
Industry specific software will be using to train the students on these platforms to enable them industry ready product.

Continuous Up gradation:

- Continuous up gradation of technology and the infrastructure is one of the quality policies of the institution.

4.3.4 Provide details on the provision made in the annual budget for procurement, up-gradation, deployment and maintenance of the computers and their accessories in the institution (Year wise for last four years)

Sr no	Year	Budget Sanctioned In Rupees
1	2016-17	10 lakhs
2	2015-16	15 lakhs
3	2014-15	10 lakhs
4	2013-14	05 lakhs

4.3.5 How does the institution facilitate extensive use of ICT resources including development and use of computer-aided teaching/ learning materials by its staff and students?

The Institution has adequate computer facility for its faculty.

- Faculty members are provided with internet facility for preparation of teaching/learning materials in their respective departments.
- Each department has its own computing facility based on the curriculum demand.

- The faculty and students can access e – resources available in the library.
- Adequate Multimedia projectors are available within the college for the faculty use.
- One seminar hall is provided with LCD projector, computer system and internet facility in the campus.
- The individual department develops their course through power point presentation for conducting classes.
- Emphasis is given on NPTEL Audio-visual learning approach Softcopy of many learning resources, e-books are provided to students.
- Online quiz/test are conducted for students.

4.3.6 Elaborate giving suitable examples on how the learning activities and technologies deployed (access to on-line teaching - learning resources, independent learning, ICT enabled classrooms/learning spaces etc.) by the institution place the student at the centre of teaching-learning process and render the role of a facilitator for the teacher.

- The institution acts as a facilitator for e-learning material (NPTEL video lectures) and the accession of online lectures of various experts from IITs, NITs and Reputed institutes through Edusat etc.
- Online journals are also available in the library for self learning.
- The institution is always been placing the students at the center of the teaching learning process. The institute understands that the teachers have to be reoriented from time to time. The institution encourages the staff and technical assistants to
- Undergo training on the computer-aided teaching and training and conducts departmental seminars and workshops for training on computer applications (viz. Power Point, Ms Word, Ms Excel, Ms Access and other necessary skills). The Department of Computer Science and Information Technology also organizes
- Training sessions on the use of Internet for learning resources, conducting seminars and workshops in various fields related to use of computer hardware and software. Well equipped computer Labs, LCD projectors and OHPs are available to the faculty for conducting seminars, workshops, computer aided training, faculty development programmes and conferences. The E Journal and E-Books facility is available for both students and faculty members to gain knowledge. The campus is fully enabled
- Wi-Fi access to avail internet facilities. The faculty is always available for any need based assistance in the use of ICT.
- LCD projectors and animation models are used for lectures to the students.
- Summer trainings are organized to provide hands on experience for various technical subjects.

4.3.7 Does the Institution avail of the National Knowledge Network connectivity directly or through the affiliating university? If so, what are the services availed of?

Not Applicable to the private institution

4.4 Maintenance of Campus Facilities

- 4.4.1 How does the institution ensure optimal allocation and utilization of the available financial resources for maintenance and upkeep of the following facilities (substantiate your statements by providing details of budget allocated during last four years)?

Utmost care is taken for budget allocation considering financial resources for providing maintenance support for the entire college facilities. Keeping in view the priorities department-wise, equipment wise and also to fulfil the academic needs of the students budgeted amounts is being utilized.

- 4.4.2 What are the institutional mechanisms for maintenance and upkeep of the infrastructure, facilities and equipment of the college?

Infrastructure facilities: Buildings & Roads

Maintenance procedure: Periodically all the buildings are inspected and repairs are carried out as per the maintenance budget.

- All the buildings are painted once in two years with quality paint.
- Wall cracks and roof cracks are to be identified and filling will be done by using suitable materials.
- All the roads will be tarred once in five years.
- Greenery (Lawns, Plants & Trees) Stretches are maintained inside the campus.

Equipment facility:

- Lab equipments are being maintained with proper maintenance schedules, breakdown, Routine and planned maintenance.

Computing facility:

- It is maintained by System Administrator.
- Inspection and servicing activities are being carried out once in semester.
- Computer systems in the college are connected with LAN connectivity.
- Licensed soft ware's and open source tools are available as per requirement.

Library:

- Library is monitored and maintained by the library committee.

- 4.4.3 How and with what frequency does the institute take up calibration and other precision measures for the equipment/ instruments?

- Departments go forward for the calibration of precision instruments for their accurate performance.
- Meters and gauges are being calibrated once in two years.

- 4.4.4 What are the major steps taken for location, upkeep and maintenance of sensitive equipment (voltage fluctuations, constant supply of water etc.)?

The steps taken for location, upkeep and maintenance of sensitive equipment are given below:

- The Departments take care to protect sensitive instruments from mechanical and electrical damage.
- The voltage stabilizers and transformers are installed to control voltage fluctuations.
- Generator power back up: One generator with capacity 125KVA
- No of UPS Systems: 9
- Total Capacity of back up: 2*80 KVA, 30 KVA
- Purified drinking water is supplied to all academic blocks, Hostel & canteen.
- 24 hours water supply in hostel

Any other relevant information regarding Infrastructure and Learning Resources which the college would like to include.

Additional Information:

Provide details on the annual library budget and the amount spent for purchasing new books and journals

Year	Expenditure						Budget Allotted
	Print Journal	E-Journal	Print Books	E-Books	Others	Total	
2014-15	1,96,200	13,08,022	26,76,760	-	6,96,224	48,77,206	59,51,500
2015-16	3,49,200	10,53,000	13,23,511	4,60,000	13,69,595	45,55,306	43,47,000
2016-17	3,10,700	9,96,000	28,02,998	-	4,45,457	45,55,155	29,56,374

List the infrastructural development of the library over the last three years.

2014-15

- Digital Library Server is procured worth Rs. 4,72,500/-
- 100 User chairs are procured worth Rs. 1,73,250/-

2015-16

- 15 KVA online UPS is installed worth Rs. 3,69,940/-
- Steel Slotted Angle Racks are procured worth Rs. 7,09,800/-
- 50 User chairs are procured worth Rs. 86,700/-
- Fire Extinguishers are installed worth Rs. 5,381/-
- One Canon Printer is procured worth Rs. 7,800/-

2016-17

- 1500 Books Supports are procured worth Rs. 1,56,575/-
- 50 Users chairs are procured worth Rs. 38,252/-

- Sony Television is installed worth Rs. 43,000/- for colourful display of information, demo of processes, videos etc.,
- Water purifier and water cooling unit installed worth Rs. 77,500/-
- 04 Working Chairs are added worth Rs. 15,572/-.

CRITERION V: STUDENT SUPPORT AND PROGRESSION**5.1 Student Mentoring and Support**

5.1.1 Does the institution publish its updated prospectus/handbook annually? If 'yes', what is the information provided to students through these documents and how does the institution ensure its commitment and accountability

Yes. The college publishes its updated prospectus every year which contains information regarding courses offered rules and regulations and other useful information. There is provision for online access to these documents.

5.1.2 Specify the type, number and amount of institutional scholarships / freeships given to the students during the last four years and whether the financial aid was available and disbursed on time?

College ensures the financial assistance to the students in the form of Scholarships, free ships and other concessions. The toppers in the class are awarded with cash prizes.

5.1.3 What percentage of students receive financial assistance from state government, central government and other national agencies?

Around 30% of the students receive financial assistance from state government, central government and other national agencies.

5.1.4 What are the specific support services/facilities available for

✓ **Students from SC/ST, OBC and economically weaker section**
SC,ST,OBC and other weaker section are provided with books through separate SC/ST book banks (1630), scholarships, free ships subjects are to name a few.

✓ **giving financial assistance, providing extra coaching in difficult**
Students with physical disabilities

✓ **Overseas students**
NIL

✓ **Students to participate in various competitions/National and International**

Students are encouraged to participate in national international competitions, seminars/workshops / design contests

✓ **Medical assistance to students: health centre, health insurance etc.**

The campus is consisting medical facility, for any critical cases the students can take the necessary treatment regarding their health in the

[SELF STUDY REPORT]

VIMS hospital, Ballari

- ✓ **Organizing coaching classes for competitive exams.**

- NO -

- ✓ **Skill development (spoken English, computer literacy, etc.,)**

The College provides provision to spoken English classes at Training and placement centre. It also arranges for advanced training in computer courses.

- ✓ **Support for "slow learners"**

The College arranges remedial classes for slow learners and weak students in subjects like Mathematics, physics, chemistry etc. Also the departments arrange remedial classes on need basis in higher semesters.

- ✓ **Exposures of students to other institution of higher learning/ corporate/business house etc.**

The students undertake the interim projects in industries and gain insights into the working of industry, the student also do their project works in major reputed industries as a part of their curriculum. The college has made MOU with many industries to train the students in contemporary areas and also in R and D work.

- ✓ **Publication of student magazines**

College has provided many opportunities for students to involve themselves in cultural, literary activities in college magazine.

- 5.1.5 Describe the efforts made by the institution to facilitate entrepreneurial skills, among the students and the impact of the efforts.**

There is a separate entrepreneurship development cell which trains the students who wish to become entrepreneurs by making them to know about procedures to be followed to start an enterprise.

- 5.1.6 Enumerate the policies and strategies of the institution which promote participation of students in extracurricular and co-curricular activities such as sports, games, Quiz competitions, debate and discussions, cultural activities etc.**

Co-Curricular activities:

The policy of the College is to support all co-curricular activities in the College as it firmly believes that the participation of students in such activities is essential for their holistic development.

Students are guided to prepare technical papers and posters on current topics in their specialization and present them in seminars and conferences. They are also

encouraged to participate in technical Quiz competitions.

The institution organizes a cultural fest for the benefit of the students to showcase their skill in music, drama and choreography. Special guests/celebrities are invited to inspire students in such activities.

Sports and Games:

The Policy of the institution is to provide unflinching support to the Sports and Games activities for both teachers and the students. The College believes that a strong mind needs a strong body and in this direction A full-time qualified Director Physical Education have been appointed to train both boys and girls in their game of interest and sports event of their choice.

- 5.1.7 Enumerating on the support and guidance provided to the students in preparing for the competitive exams, give details on the number of students appeared and qualified in various competitive exams such as UGC-CSIR- NET, UGC-NET, SLET, ATE / CAT / GRE / TOFEL / GMAT / Central/State services, Defense, Civil Services, etc.

The experts from administrative services are invited to deliver lectures on how to prepare for competitive exams like IAS, IPS, IRS, KES, and KAS etc. students are provided with library resource material to prepare well for competitive exams. The calendar of events, syllabus and course material is made available to students participating in competitive exams.

- 5.1.8 What type of counseling services are made available to the students (academic, personal, career, psycho-social etc.)

The college provides counseling for personal / career / medical. In personal counseling the college has unique programme in which ten students are mentored by staff member. This interaction helps in identifying the potential weakness of the students; the mentors develop the plan of action for meeting the requirements of students and develop the course of action for effective mentorship. During this process they will also be counseled for career opportunities and setting the goals for the future to go for jobs or to pursue higher education or starting their own enterprise. In psychological counseling the students are counseled for anxiety, anger, and stress management. At preliminary level they are counseled at college level, for advanced counseling expert psychologist consultations are taken.

- 5.1.9 Does the institution have a structured mechanism for career guidance and placement of its students? If 'yes', detail on the services provided to help students identify job opportunities and prepare themselves for interview and the percentage of students selected during campus interviews by different employers (list the employers and the programmes).

The college has a dynamic placement and training department which provides the necessary training to take up the campus interviews, providing the facilities for the company people to conduct tests and interviews, gearing up the students to take the tests and interviews confidently.

- ✓ There is a separate entrepreneurship development cell which trains the students who wish to become entrepreneurs by making them to know about procedures to be followed to start an enterprise. Services provided to help students identify job opportunities, Prepare them for interview, the percentage of students selected during campus interviews by different employers.

5.1.10 Does the institution have a student grievance redressal cell? If yes, list (if any) the grievances reported and redressed during the last four years.

Yes, there is a separate grievance redressal system which deals with special cases of problems associated with students. Most of the grievances of the students are effectively addressed in the student grievance cell.

5.1.11 What are the institutional provisions for resolving issues pertaining to sexual harassment?

Yes, the Institute has sexual harassment committee as per the norms of UGC.
No such incidents are reported so far.

5.1.12 Is there an anti-ragging committee? How many instances (if any) have been reported during the last four years and what action has been taken on these?

The anti ragging committee is constituted in the beginning of every academic year. This committee monitors and prevents the ragging incidents. It also visits the hostels in night time randomly to check whether there are any incidents of ragging.

5.1.13 Enumerate the welfare schemes made available to students by the institution.

RYMEC has great concern for the students of the institution. It believes in holistic development of students besides empowering them with knowledge and skills necessary for personal growth, nation building and capable of leading a peaceful and successful life in the society. It has many welfare schemes for students which help them in building a successful career as follows:

- Distribution of state and central government scholarships
- Endowment awards

[SELF STUDY REPORT]

- Support for participation in conferences, paper presentations etc.
- Funding for in-house and innovative projects
- Career guidance and employability training camps and campus placement Support for participation in curricular, co-curricular and extracurricular events
- Arrangement of remedial teaching for slow learners
- Free medical and fitness check up routinely undertaken
- Academic tutor mentorship

Other facilities available for students include library and research facilities available after working hours to carry out projects; subsidized canteen facility, payment of fees in installments, free learning materials and text books, transport facility for students involved in other co-curricular and extra-curricular activities after working hours, waiver of tuition and transport fees in deserving cases.

5.1.14 Does the institution have a registered Alumni Association? If yes*, what are its activities and major contributions for institutional, academic and infrastructure development?

Yes. The college is having registered alumni association. The alumni association is engaged in organizing alumni meet from time to time and planned to extend the activity for the institutional, academic infrastructure development.

5.2 Student Progression

5.2.1 Providing the percentage of students progressing to higher education or employment (for the last four batches) highlight the trends observed.

Student progression	%
UG to PG	10
PG to MPhil,	5
PG to Ph.D,	5
Employed	
• Campus selection	60
• Other than campus recruitment	20

5.2.2 Provide details of the programme wise pass percentage and completion rate for the last four years (cohort wise/batch wise as stipulated by the university)? Furnish programme-wise details in comparison with that of the previous performance of the same institution and that of the Colleges of the affiliating university within the city/district.

Programme wise pass percentage and completion rate for the last four years is
Enclosed annexure

- 5.2.3 How does the institution facilitate student progression to higher level of education and/or towards employment?**

The college facilitates the students' progression by conducting the training classes for competitive exams, with the expert lecturers and invited lectures.

- 5.2.4 Enumerate the special support provided to students who are at risk of failure and drop out?**

The College arranges remedial classes for slow learners and weak students in subjects like Mathematics, Physics, chemistry etc. Also the departments arrange remedial classes on need basis in higher semesters.

5.3 Student Participation and Activities

- 5.3.1 List the range of sports, games, cultural and other extracurricular activities available to students. Provide details of participation and program calendar.**

The college provides range of sports, games, cultural and other extracurricular activities available to students, as per VTU norms.

- 5.3.2 Furnish the details of major student achievements in co-curricular, extracurricular and cultural activities at different levels: University / State / Zonal / National / International, etc. for the previous four years.**
enclosed Annexure

- 5.3.3 How does the college seek and use data and feedback from its graduates and employers, to improve the performance and quality of the institutional provisions?**

The college collects feedback from its graduates and employers and uses it to develop its curricula, improve the facilities and the overall status of the college. The college organizes alumni meet periodically and collects the feedback and uses it to in the improvement of the college

- 5.3.4 How does the college involve and encourage students to publish materials like catalogues, wall magazines, college magazine, and other material? List the publications/ materials brought out by the students during the previous four academic sessions.**

The college publishes its annual college magazine in which the students publish articles, both technical and general. In addition to this the students publish in various conferences, seminars and other events.

- 5.3.5 Does the college have a Student Council or any similar body? Give details on its selection, constitution, activities and funding.**

Many student councils for Cultural activities, NSS activities, Department Student Societies, CSI etc. do exist in the Institute. They conduct major inter/intra Institutional events periodically. The source of funding is from Institute.

5.3.6 Give details of various academic and administrative bodies that have student representatives on them.

There are various administrative bodies in the college which have student representatives. The student representatives are invited for the conduction of Cultural activity, College fests, Workshops, Science fests, Fresher's day annual day and forum activities.

5.3.7 How does the institution network and collaborate with the Alumni and former faculty of the Institution.

Yes - The college is having a registered alumni association. The alumni association is engaged in organizing alumni meet from time to time and planned extend its activity regarding Student Support and Progression.

5.3.8 Any other relevant information regarding Student Support and Progression which the college would like to include.

CRITERION VI: GOVERNANCE, LEADERSHIP AND MANAGEMENT

6.1 Institutional Vision and Leadership

- 6.1.1 State the vision and mission of the Institution and enumerate on how the mission statement defines the institution's distinctive characteristics in terms of addressing the needs of the society, the students it seeks to serve, institution's traditions and value orientations, vision for the future, etc.?

VISION OF THE INSTITUTION

To produce Professionally Excellent, Knowledgeable, Globally Competitive and Socially Responsible Engineers and Entrepreneurs

MISSION OF THE INSTITUTION

M1: To provide quality education in Engineering and Management.

M2: To establish a continuous Industry Institute Interaction, Participation and collaboration to contribute skilled Engineers.

M3: To develop human values, social values, entrepreneurship skills and professional ethics among the technocrats.

M4: To focus on innovation and development of technologies by engaging in cutting edge research areas.

6.1.2 What is the role of top management, Principal and Faculty in design and implementation of its quality policy and plans?

The main goal of the V.V Sangha is to achieve the institutional mission and vision monitored by Management, Faculty and University representative.

The V.V Sangha management will ensure that high-quality teaching, training and research, and services to the community are achieved. This objective requires governance that combines social vision, including understanding of global issues, with efficient managerial skills.

In this regard, Institution has developed its policy in consultation with external and internal stake holders. Institution policy is mainly focused on Teaching Learning and Evaluation, Student Support and Progress and Faculty Empowerment and Welfare.

Management is committed to comply with all the mandatory requirements. Principal, Deans and Heads of the department are involved in the development of the academics policy and its updation periodically followed by the approval of management.

Implementation of the institutional policy is taken care by the staff members including teaching and nonteaching which is continuously monitored by various academic committees.

6.1.3 What is the involvement of the leadership in ensuring :

- ✓ the policy statements and action plans for fulfilment of the stated mission

Institution has the vision followed by missionary statement to maintain the quality policy of the institution. The leadership at all the levels of the

hierarchical structure of the organization is completely devoted from development to implementation of the policy.

- **formulation of action plans for all operations and incorporation of the same into the institutional strategic plan**

The action plan is formulated by Principal, Deans, Heads of the department and Coordinators of various academic committees.

- **Interaction with stakeholders**
- RYMEC maintains the regular interaction with its stakeholders by all the levels of institution.
- Governing body Meeting and Academic Advisory Council meeting is conducted twice in an academic year.
- Principal conducts regular meetings with HoDs, Faculties and Students as per the institutional academic calendar.
- Parent Teachers Meeting is conducted time to time to update the performance of the students.
- Alumni meet is conducted once in a year to maintain the industry-institution relationship.
- Complaint & Suggestion Boxes and Notice Boards: These have also been installed by various committees for receiving feedback and to keep the students informed in time.

Interaction with the University:

Institute keeps interacting with the VTU, Belagavi at various levels, including the following:

- The Principal and faculty members interact with the university administration and the departments through the meetings of the bodies in which they are represented or through the meetings or conferences organized to discuss specific issues.
 - Discussions are also held with the university inspection teams (VTU - LIC), which visit the college.
 - Faculty members interact extensively with the university departments at the time of curriculum design or revision, if any.
 - Students also participate in the events and interactions organized by the university based on invitations/instructions received from the university.
 - Leaders from the local community are invited to attend the Annual Day (MANDARA) function of the college.
 - The College regularly undertakes cleanliness and public health/consumer awareness programs in its surrounding area as part of its community service projects.
 - Proper support for policy and planning through need analysis, research inputs and consultations with the stakeholders.
- Management of the institution is committed for complete satisfaction of stakeholders. Policy of the Institution is designed with the consultation of all the stakeholders after the thorough analysis of requirements and technological advancement time to time.
- Reinforcing the culture of excellence
- RYMEC is striving for excellence in Quality Engineering Education through regular monitoring of academic activity, faculty

improvement, student satisfaction, extracurricular activities, research culture and industry collaboration.

- Champion organizational change
RYMEC is ensuring that all members of the academic community engaged in research are provided with appropriate training, resources and support. Innovation, Entrepreneurship, interdisciplinary and transdisciplinarity has been promoted and reinforced with long-term orientations on social and cultural aims and needs.

6.1.4 What are the procedures adopted by the institution to monitor and evaluate policies and plans of the institution for effective implementation and improvement from time to time?

The Institution has a very active and vibrant Staff to ensure effective implementation of the plans and policies and improve thereupon from time to time, within the broader framework of University Rules.

Committees are constituted for the monitoring and evaluation of academic and administrative process.

- ✓ Anti Ragging Committee
- ✓ Academic Monitoring Committee
- ✓ Cultural Activity Committee
- ✓ Research Advisory Committee
- ✓ Disciplinary Committee
- ✓ Grievance Redressal Committee
- ✓ Industry Institute Interaction Committee
- ✓ Sexual Harassment Prevention Committee

6.1.5 Give details of the academic leadership provided to the faculty by the top management?

- Our top management is providing vision and a roadmap for our pursuit of academic excellence.
- Academic freedom to organize workshops and seminars.
- On various occasions the management's interaction with staff and students provides guidance for the academic growth of the college.
- The top management of the college comprises the Governing Body, the Principal and the staff.

6.1.6 How does the college groom leadership at various levels?

In our institution, the main focus is on developing transformation leaders through giving freedom to do various activities independently at different levels. Assistant professors and associate professors are involved as laboratory in-charges for development. Many faculty discharge additional duties like class coordinators, mentors and members of various committees which groom them for leadership.

6.1.7 How does the college delegate authority and provide operational autonomy to the departments / units of the institution and work towards decentralized governance system?

- RYMEC maintains an organizational structure where Governing body

is the supreme authority of the organization who appoints the Principal.

- Principal of the college is the highest academic authority responsible for the academic process. Deans and Heads of the departments are directed by the principal.
- Academic Committee Coordinators are deputed by the Principal at the institute level and by the HoDs at the department level for the academic activity.
- HoDs have operational autonomy at their department level to conduct various academic activity which reflects into their departmental academic calendar.

6.1.8 Does the college promote a culture of participative management? If 'yes', indicate the levels of participative management.

YES, Participation of all the stakeholders (both internal and external) to achieve the vision of the institution is the quality policy of the institution and are allowed to express their view as and when required. Faculty members are participating department level Committee Coordinators.

Parents Teachers meeting is regularly organised to ask their view for the improvement of the institution.

Students are allowed to represent their view as a Class Representative and other event coordinator.

Staff meetings are conducted with the management to take views on developing institution and its activities.

6.2 Strategy Development and Deployment

6.2.1 Does the Institution have a formally stated quality policy? How is it developed, driven, deployed and reviewed?

Institute quality policies are

- Provide Excellence in Quality Engineering Education to the students.
- Our commitment to comply with mandatory requirements.
- Continuous improvement of quality management system.
- Our commitment to achieve student satisfaction by assuring
- Successful completion of the degree with skill sets to solve engineering problems.
- By providing training at all the levels with placement assistance.
- By imparting research and entrepreneurial skills to meet the rapidly changing needs of society.
- Use of modern technology and its up gradation.
- Participation of all the stakeholders to achieve the vision of the institution.

The college believes in quality in all academic and administrative aspects.

Despite some infrastructural constraints, the teaching and non-teaching staffs are conscious of its responsibility towards the most important stakeholders, i.e. the students. As quality is an evolving construct, conscious efforts towards the incremental improvements in teaching and administrative services are like a work-in-process* at the college.

6.2.2 Does the Institute have a perspective plan for development? If so, give the aspects considered for inclusion in the plan.

Yes, the institute does have a perspective plan for development. There are few important areas are:

- Teaching, Learning and Continuation evaluation.
- Support and progress of the student.
- Welfare of the faculty, student and society.
- Research and innovation.

6.2.3 Describe the internal organizational structure and decision making processes.

Governing Council is the supreme body headed by the Chairman and responsible for the Policy and budget approval. Academic Council is responsible for academic policy. Deans and HoDs are directed by the Principal. Department level decisions are made by the HoDs in the line of guidelines provided by the university and AICTE. Institutional Decisions are made by the Principal in the consultation of management.

6.2.4 Give a broad description of the quality improvement strategies of the institution for each of the following

- Teaching & Learning
 - Implementation of outcome based teaching, learning and continuation evaluation methodology.
 - Institute have primarily relied upon establishment of ICT methods of teaching.
 - Feedback from the students is taken for the regular improvement.
 - Regular monitoring is conducted on the syllabus coverage and students satisfaction by Internal Quality Assessment Cell.
 - Programs are designed for advance learner & slow learners.
- Research & Development
 - Research projects are undertaken by the students and the faculty members from time to time. Students are encouraged to learn research tools and methodology through class assignments, project works/term papers, and mentorship by faculty. In the past two years the college has worked upon two innovation projects and students have immensely benefited.
 - To motivate the faculty in research and development, their participation is encouraged in attending conferences, seminars and workshops. The necessary financial support is extended by the college.

- **Community engagement**
 - Students and faculty actively participate in community engagement programmes through NSS.
- **Human resource management**
 -
- **Industry interaction**
 - Industry Institute Interaction Cell of the Institution headed by the Training and Placement Officer bridges the gap between Institute and Industry. Speakers are invited from the industry to deliver the lectures on the current topics.

6.2.5 How does the Head of the institution ensure that adequate information (from feedback and personal contacts etc.) is available for the top management and the stakeholders, to review the activities of the institution?

Yes, institute collects feedback from stakeholders in different ways:

- Students
- Exit feedback from outgoing students.
- Course exit survey feedback from current students.
- Feedback from alumni.

This process is periodically conducted and accordingly necessary steps are taken. Various Academic Committees also prepares the report and submit to Principal.

6.2.6 How does the management encourage and support involvement of the staff in improving the effectiveness and efficiency of the institutional processes?

- Management has the Faculty Empowerment Policy where all the possible cares have been taken. Health, Professional development, Promotion, Increment, Award and welfare are the several key issues where management is devoted to its employee.
- The management also gives academic and administrative autonomy to the staff for improving the efficiency at the institutional level.

6.2.7 Enumerate the resolutions made by the Management Council in the last year and the status of implementation of such resolutions.

Management has always been supportive and provided all the required infrastructure and resource required by the institution.

- ✓ Promotion of Research
- ✓ Innovation and Entrepreneurship
- ✓ Higher Studies.
- ✓ Consultancy

6.2.8 Does the affiliating university make a provision for according the status of autonomy to an affiliated institution? If 'yes', what are the efforts made by the institution in obtaining autonomy?

Yes, Visvesvaraya Technological University, Belagavi has the provision of autonomous status. Our institution is yet to apply for autonomous status.

6.2.9 How does the Institution ensure that grievances / complaints are

promptly attended to and resolved effectively? Is there a mechanism to analyze the nature of grievances for promoting better stakeholder relationship?

Yes, To redress the genuine grievances of staff and students to have a congenial atmosphere for studies and smooth working of administration. The College has constituted grievances Redressal Cell. The Cell has its own guidelines to handle the grievance and submits the report to Principal/Management.

The Grievance Redressal Committee addresses individual grievances of staff and students. The Principal frequently gives counselling to the students to address their concerns and apprehensions. The Principal keeps interacting with the faculty to understand and address their issues.

- The Committee against Sexual Harassment is duly constituted as per rules and it promptly looks into all complaints.
- The Anti-Ragging Committee takes its responsibilities very seriously and is vigilant throughout the year, and especially at the beginning of the session. Suggestion and complaint boxes are prominently placed and regularly checked.

6.2.10 During the last four years, had there been any instances of court cases filed by and against the institute? Provide details on the issues and decisions of the courts on these?

- NIL -

6.2.11 Does the Institution have a mechanism for analyzing student feedback on institutional performance? If 'yes', what was the outcome and response of the institution to such an effort?

Feedback is the continuous process to control, monitor and enhance the quality of the institution. Institution has the provision to obtain feedback from students. The first feedback is obtained at the beginning of the academic semester usually after one month of the commencement of the classes. The second feedback is obtained at the end of the Academic semester. Feedback system is based on questionnaire which is subject to change as per the requirement time to time. Feedback report is provided to principal and management. Suitable action is taken as the students satisfaction is the ultimate goal of the institution. Student's feedback is very important for the continuous improvement of the faculty and enhancement of overall quality of the institution. Disciplinary actions, welfare measure initiatives are the outcomes of the feedback

6.3 Faculty Empowerment Strategies

6.3.1 What are the efforts made by the institution to enhance the professional development of its teaching and non teaching staff?

- Training the teachers for excellence
- Sponsoring faculty and staff for higher education, higher education, attending the workshops, conferences by granting academic leave.
- Organizing faculty development and skill development r programmes

- Encouraging faculty to deliver guest lectures outside the institutions.

6.3.2 What are the strategies adopted by the institution for faculty empowerment through training, retraining and motivating the employees for the roles and responsibility they perform?

- Review of the performance appraisal by HOD and Principal for suitable suggestions and remedial suggestion.
- Communication to concerned faculty, providing support and guidance for improvement.
- Guidance to junior faculty by the expert senior faculty of the same subject.
- Syllabus coverage, time adequacy, student psychology of understanding the topics are points reviewed in reports of each faculty member.

6.3.3 Provide details on the performance appraisal system of the staff to evaluate and ensure that information on multiple activities is appropriately captured and considered for better appraisal.

- performance appraisal system of the staff is in place.

6.3.4 What is the outcome of the review of the performance appraisal reports by the management and the major decisions taken? How are they communicated to the appropriate stakeholders?

Faculty members are felicitated based on their performance in appraisal report. Performing faculties are awarded and encouraged for the betterment. Underperformance or poor performance faculty members are properly counselled. More serious action may be taken if the faculty's performance does not improve including further counselling, issuing formal warnings and ultimately if the issue cannot be resolved.

6.3.5 What are the welfare schemes available for teaching and non teaching staff? What percentage of staff have availed the benefit of such schemes in the last four years?

welfare measures extended to the employees of the college are:

Provision of canteen in the campus.

- ✓ Maternity leave to the women employees, for a period of 90 days
- ✓ Group Insurance
- ✓ Employees Provident Fund (EPF).
- ✓ Research Promotion
- ✓ Vacation Leave
- ✓ Nominal Transportation Charge
- ✓ Medical Checkups

6.3.6 What are the measures taken by the Institution for attracting and retaining eminent faculty?

- ✓ Special Allowance
- ✓ Special duty leave
- ✓ Research Promotion Scheme

6.4 Financial Management and Resource Mobilization**6.4.1 What is the institutional mechanism to monitor effective and efficient use of available financial resources?**

Planning and Budgetary Control are effectively monitored in the institution. Institute prepares the budget in accordance with the budget required by the departments. Budget is presented before the Governing body and MC meeting and approved. A transparent procedure is adopted by the account section of institution where each credit and debit is recorded.

6.4.2 What are the institutional mechanisms for internal and external audit? When was the last audit done and what are the major audit objections? Provide the details on compliance.

Financial audits are taken up by the chartered accountants at the end of each financial year. Last audit was done in the assessment year 2014-2015.

6.4.3 What are the major sources of institutional receipts/funding and how is the deficit managed? Provide audited income and expenditure statement of academic and administrative activities of the previous four years and the reserve fund/corpus available with institutions, if any.

The major source of institutional funding is tuition fees. The deficit is managed by the management by personal loans.

6.4.4 Give details on the efforts made by the institution in securing additional funding and the utilization of the same (if any).

Additional grants have been received from the state and central government agencies to promote research, innovation and entrepreneurship quality among students and staff.

6.5 Internal Quality Assurance System (IQAS)**6.5.1 Internal Quality Assurance Cell (IQAC)****a) Has the institution established an Internal Quality Assurance Cell (IQAC)? If 'yes', what is the institutional policy with regard to quality assurance and how has it contributed in institutionalizing the quality assurance processes?**

The college has recently set up an IQAC. The college is firmly committed to the objectives of IQAC and has adopted a quality policy aimed at achieving excellence through continuous improvement, cultural transformation and systematic internalization of quality improvements.

b. How many decisions of the IQAC have been approved by the management / authorities for implementation and how many of them were actually implemented?

Ever since its recent inception the IQAC has started gathering the feedback from students and other stakeholders, the same will be analysed in the ensuing academic session and suitable actions initiated.

c.) Does the IQAC have external members on its committee? If so,

mention any significant contribution made by them.

-NO-

d.) How do students and alumni contribute to the effective functioning of the IQAC?

Students and alumni have been contributing to the effective functioning of the evaluation and improvement mechanism of the college. They will have an instrumental role in collecting students' feedback about courses, teaching-learning, amenities, and events in the college. This feedback is expected to play a major role in reviewing the progress made and bring about further quality improvements. Students also have the opportunity to send their suggestions through the monitoring system suggestion box and feedback form available in the college.

e.) How does the IQAC communicate and engage staff from different constituents of the institution?

Monitoring system decision making process whose feedback is taken and analysed before taking any major decision. The minutes of the meetings are widely circulated among the stakeholders to elicit their comments and suggestions.

6.5.2 Does the institution have an integrated framework for Quality assurance of the academic and administrative activities? If 'yes', give details on its operationalisation.

High quality of academic and administrative activities is ensured through:

- Systematic record-keeping and frequent training sessions of the administrative staff to keep them abreast of latest trends, development and technology. They are also sensitized on considerate handling of students and teachers for their various needs.
- The performance appraisal system for the faculty is integrated through result analysis of the students at the end of the semester and, wherever necessary, counselling is provided to students.

6.5.3 Does the institution provide training to its staff for effective implementation of the Quality assurance procedures? If 'yes', give details enumerating its impact.

- The teaching faculty is encouraged to attend seminars, conferences, and workshops regularly in order to keep abreast of the current development, and latest trends in teaching-learning processes.
- From time to time, the administrative staffs undergo the required training.
- The college also organizes residential workshops to train its teaching and administrative staff jointly for achieving coordinated and effective implementation of quality assurance procedures. Two such workshops have already been organized in 2012 and 2015.

6.5.4 Does the institution undertake Academic Audit or other external review of the academic provisions? If 'yes', how are the outcomes used to improve the institutional activities?

Departmental assessment committee inspects periodically to assess

Attendance Report, Syllabus Coverage, Faculty File, Attendance Register, Work Load Distribution, Student's Feedback, Blue-book etc.

6.5.5 How are the internal quality assurance mechanisms aligned with the requirements of the relevant external quality assurance agencies/regulatory authorities?

Academic monitor committee has ensured that internal quality policies will not conflict with external quality assurance agency policies.

➤ Continuous assessment scheme is an internal mechanism to generate term work marks of a student. Term work marks are included in the examination results by the university

➤ Academic monitor committee and the HoDs propose required infrastructure as per the AICTE norms. Infrastructure development is done accordingly.

➤ The Academic monitor committee receives the faculty requirement data from the department heads as per the university norms and AICTE norms. Faculty is recruited accordingly.

➤ The librarian and faculty from each department and Academic monitor committee initiate the library books and journal purchases according to the AICTE norms.

➤ Infrastructure and faculty status in the institute is peer reviewed by the Local Inspection Committee (LIC) of the university. Suggestions of the LIC are utilized by the Academic monitor committee.

6.5.6 What institutional mechanisms are in place to continuously review the teaching learning process? Give details of its structure, methodologies of operations and outcome?

Periodically Class coordinator meeting, Class representative meeting, HoDs meeting and Staff meeting are conducted to review teaching and learning process. A detail report is prepared and assessed with necessary actions.

Following mechanisms are used to continuously review the teaching learning process.

1. Audit of teaching plan from Academic monitor committee.
2. Mid-semester feedback about a teacher from the students.
3. Departmental audit about syllabus coverage every month.
4. Mentoring the students every week.

Outcome:

1. The quality of academic processes in the institute has improved.
2. Individual faculty gets inputs to improve his/her performance and hence contribute to the teaching-learning quality.
3. Individual attention to students through mentoring contributes to improvement in students' performance.

6.5.7 How does the institution communicate its quality assurance policies, mechanisms and outcomes to the various internal and external stakeholders?

- The college website is regularly updated on all the notifications and

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development/activities pertaining to the administrative and academic matters for the different internal and external stakeholders. Besides the college prospectus, students' and teachers' notice boards are the other means of staying connected with our stakeholders.

- At the commencement of the new academic session, an orientation program for the fresher's is organized by the college wherein the Principal introduces the students to the rules, regulations, and facilities at the college, and the quality assurance policy.

Any other relevant information regarding Governance Leadership and Management which the college would like to include

CRITERIA VII: INNOVATIONS AND BEST PRACTICES**7.1 Environment Consciousness****7.1.1 Does the Institute conduct a Green Audit of its campus and facilities?**

Yes, The college has conducted Green Audit of the campus by Staff and Student Coordinators. Primary importance is given for development of eco - friendly atmosphere in the campus by the management. The College has adopted various measures to maintain a green campus and helps in developing an eco-concern and environment consciousness.

7.1.2 What are the initiatives taken by the college to make the campus eco-friendly?

The college has adopted different strategies to make the campus sustainable and environment friendly.

- **Energy conservation**

- The college has gradually moved on from normal light bulbs (least required wattage) to tube lights, slim lights, CFLs, LEDs and the college also replaced most of the CRT monitor to LCD monitors thus conserving energy to the extent required.
- Electrical energy is conserved by using solar energy for water heating in Hostels.
- The proposal for setting up of Solar panels for generation of electricity and excess power generated will be sourced to main KPTCL is under discussion.
- The UPS Batteries were maintained in good condition which reduces frequent charging of batteries and hence controls power utilization.
- Periodical equipment checking and monitoring is carried out to avoid excess power consumption.

- **Use of renewable energy**

- **Water harvesting**

Rain water harvesting has been in place for last two years and from the experimental stage now the campus has increased systematically the harvesting capacity.

Rain water harvesting system is built in Main block and R & D block of campus to ensure continuous recharging of ground level water. The quality of water is regularly monitored by water quality management committee. Water samples are collected and

- **Check dam construction**

- **Efforts for Carbon neutrality**
NIL
- **Plantation**

RYM Engg campus is spread over 53 acre areas free from pollution and noise, an ideal ambience for learning environment. The campus has more than 1000 trees. Each block of the building and playgrounds are surrounded by large trees which maintain healthy and balanced environment.

- **Hazardous waste management**

Vegetable waste in the hostel and canteen are hazardous and municipal trucks are being arranged to dispose them regularly to keep the campus clean.

- **e-waste management**

The old electrical, electronic and computers discarded in the college due to obsolescence or exchanged/sold to dealers/vendors.

7.2 Innovations

7.2.1 Give details of innovations introduced during the last four years which have created a positive impact on the functioning of the college.

- ✓ Mentoring System
- ✓ Project based Learning
- ✓ Creation of Virtual Labs
- ✓ Virtualization and networking for e-learning
- ✓ Pre placement training
- ✓ ICT based training
- ✓ R&D culture
- ✓ Patent filing
- ✓ Industry Institute Interaction

7.3 Best Practices

7.3.1 Elaborate on any two best practices in the given format at page no. 98, which have contributed to the achievement of the Institutional Objectives and/or contributed to the Quality improvement of the core activities of the college.

A) Best Practice No.1: Project Based Learning Environment.

a. **Goal:** For achieving effective learning by students.

b. **The Context:** Learning happens only when one performs tasks on his own.

c. **The Process:**

- Students are encouraged to pick up a project in small groups in the representative list of areas prepared by the department or by him. They are required to go through a structured process of analyzing the problem, solution development and implementation.
- Student projects are then evaluated on the basis of merit.
- Necessary feedback is given to students.
- Institute has developed various schemes such as Lab innovations, learning through projects.

d. **The Outcome:** PBL shows improvement in understanding and confidence about core concepts among students. It also helps in achieving skills required for the professional practice.

Best Practice -2

1. Title of the Practice : "Mentoring System"

2. Goal

The objectives of the practice followed by the Institute are:

- Improvement of teacher-student relationship.
- Counselling students for solving their problems and provide confidence to improve their quality of life.
- Guiding students to choose right career path for job, higher studies, Entrepreneurship, etc.

3. The Context

- The following are the issues which motivated the college to implement the mentoring system.
- The pressure to perform in current competitive world and to face the challenges of the society, students needs mentoring support to achieve academic excellence.
- The scheme aims at addressing conflicts in attitudes, habits, and knowledge of the students towards learning practices.
- Many other supporting methods have been introduced for better coordination of lectures, tutorials and practical classes. Advanced tutorials are arranged by the mentors in association with the respective subject teachers and experts who focus on problem-based learning of modern technology.
- Towards the end of semester, students work collaboratively on assignments in small groups in their practical classes.

4. The Practice

- The Practices that may be unique in the higher education and constraints or limitations faced during their implementation are described here. History of the students is maintained as document for the students under the mentors for monitoring and analysis of the practice on regular basis.
- Batches of 10 students are allotted to a mentor.
- Each mentor maintains the history cards of allotted students. Mentor has direct communication with the Class Coordinators (CC).
- The Mentors meet the students associated with them once in a fortnight. The Parents/Guardians of poor attendee/performance students are called to meet the mentors and corrective and preventive measures are implemented for further improvement.
- The mentors take initiative to arrange remedial and tutorial classes for slow learners.
- Each mentor maintains the entire student Information, which is examined by the HOD and others concerned when necessary.
- During feedback given by the students, mentors take active initiative to arrange the same.

Mentors meet with each group during the semester to discuss academic and non-academic issues.

The issues include:

- good and bad study habits
- study planning and techniques
- How to make the most of lectures and practical classes useful.
- distractions if any, and how to cope with them
- what to do when things go wrong
- examination preparation
- Health issues, etc.
- The meetings also provide the students with a forum for discussing their own experiences and ideas, fostering networking and mutual support within the class.
- In addition, mentors are available even after the college hours, so that students could consult them individually regarding exigencies they might encounter. Such consultations remain confidential on case basis.
- The Institute regularly arranges mentorship awareness program, mainly for newly recruited faculty members.

5. Evidence of Success

Evidence of success in performance against targets and benchmarks and Review of results given below.

- Student's attendance had improved after counselling by the mentors.
- The direct communications between mentor and students have nurtured the teacher-student relationship.
- Academic performances of the students have improved.
- Participation in extra-curricular activities has been enhanced.
- Students become more disciplined compared to their initial sessions.
- During last few years, the Mentors have taken active initiatives and have prohibited ragging completely in the campus.

6. Problems Encountered and Resources Required.

There are some problems identified and resources provided to implement the practice. These are:

- The newly joined faculty members from other colleges who are not accustomed with the culture and instinct of the mentorship scheme are separately educated by the institute to get involved in the mentorship scheme in the right direction
- Apart from regular theory and practical classes, allocating sufficient time for one to one student interaction through mentorship program sometimes becomes a constraint for the faculty members.
- However, the institute encourages and appreciates such activities through the annual appraisal of the faculty members.
- Financial budgetary requirements has been planned to organize workshops by hiring external experts in the subject of mentorship,

organizational behaviour and stress management on regular basis.

Best Practice -3

1 Title of the Practice :- "To encourage entrepreneurship among students"

2 Goal:

- To act as an institutional mechanism for providing Services and information on enterprise building to budding Science & Technology entrepreneurs.
- To create Entrepreneurial culture in the Institution to support women and weaker sections of the society.
- To inculcate a culture of innovation driven entrepreneurship to enable students to carry out in-house project.
- To promote employment opportunities.
- To respond effectively to the emerging challenges.

3 The Context

More than one lakh students get their engineering graduation in Karnataka every year. There are significant number of students who have valuable entrepreneurial ideas which do not germinate and grow to completion, for want of the necessary environment and support. Allowing students to start working on innovative ideas while they are in college, can make them contribute significantly to the growth of a robust entrepreneurial system in the society.

4.The Practice:

Student entrepreneurship is done in 3 stages.

- **Preparation In house stage:** The expert committee formed for the evaluation of ideas shall interview each entrepreneur and analyze their potentiality.
- **Review and establishment:** Team formation is the key for the entrepreneur to commence his journey before starting his own company.
- **Prototype development:** The working model or prototype of the technology idea to be developed and this is to be certified by experts for commercialization.

5. Evidence of Success

The college has started ED Cell during 2012-13. This is platform for students to initiate entrepreneurship activities. BE & M.Tech students are part of the above Cell. Students are made practice of doing innovative projects during 4th year. Faculty members are supporting towards learning, design, implementation of problem for successful

completion of projects. The results of above said practice also increases the number of papers published by the faculty members. The ED Cell provides platform for students to innovate, design and prototype industry relevant products.

6. Problems Encountered and Resources Required.

- Takes a lot of work and long hours.
- As good as our idea is success depends on the volatile marketplace.

EVALUATIVE REPORT OF THE DEPARTMENTS

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DEPARTMENT OF MECHANICAL ENGINEERING

Evaluative Report of the department

1 Name of the department:	Mechanical Engineering.		
2 Year of Establishment :	1980		
3 Names of Programmes/Courses offered:	Mechanical Engineering (UG). PG - M.Tech (TPE), M.Tech (MPM)		
4 Names of Interdisciplinary courses and the departments/units involved	<ul style="list-style-type: none">• Department of Mathematics (Maths for 1st and 2nd Year)• Department of Physics (Physics For 1st Year)• Department Of Chemistry (Chemistry for 1st Year)• Department of Electrical and Electronics Engg (Basic Electrical For 1st Year)• Department of Mechanical Engg (EME, CAED and Work Shop for 1st Year)• Department of Electronics and Communication Engg (Basic Electronics for 1st Year)• Department of Civil Engg (Elements of Civil Engg., and Environmental for 1st Year)• Computer Science and Engineering		
5 Semester/choice based credit system	2010 - 2014 Batch semester wise 2015- 1 st Year CBCS System.		
6 Participation of the department in the courses offered by other departments	CIP		
7 Courses in collaboration with other universities, industries, foreign institutions, etc.	NIL		
8 Details of courses/programmes discontinued (if any) with reasons	NIL		
9 Number of Teaching posts	37		
<table><tr><td>Sanctioned</td><td>Filled</td></tr></table>		Sanctioned	Filled
Sanctioned	Filled		

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Professors	02(UG)+02(PG)	05(UG)+02(PG)
Associate Professors	04(UG)+02(PG)	04(UG)+0(PG)
Asst. Professors	26(UG)+02(PG)	18(UG)+04(PG)

10	Faculty profile with name, qualification, designation, specialization.(D.Sc./D.Litt. /Ph.D./M.Phil.etc.,)					
Sl.no	Name	Qualification	Designation	Specialization	No. of Years of Exper	No. of Ph.D. Students
01	Dr. K.Veeresh	M.E, Ph.D	Principal &	Production Management	30	04
02	Dr. Nagaraj Kori	M.E, Ph.D	Professor	Machine Design	25	03
03	Dr. Hiregoudar	M.E, Ph.D	Professor	Thermal Power	25	09
04	Dr. A Thimmana Gouda	M.Tech, Ph.D	Professor	Maintenance Engg	27	06
05	Dr. Chitriki Thatanna	M.E, Ph.D	Professor	Production Management	24	03
06	Dr.G.Jagannath Reddy	M.E, Ph.D	Professor	Production Management	25	00
07	Dr. S.K.Modi	M.E, Ph.D	Associate professor	Thermal Power	25	-
08	M.R.Indhudar	M.E	Associate professor	Thermal Power	27	-
09	Shivamanappa.G.	M.E	Associate professor	Machine Design	28	-
10	A.M.Shivaprakash Swamy	M.E	Associate professor	Production Management	23	-
11	Dhandin Ramesh	M.E	Associate professor	Production Management	20	-
12	M.Balaji	M.Tech	Assistant professor	Production Management	16	-
13	Kotresh Sardar	M.Tech	Assistant professor	Production Engineering	13	-
14	A.Swamynath	M.Tech	Assistant professor	Thermal Power	22	-
15	Chandragouda.M	M.Tech	Assistant professor	Thermal Power	09	-
16	P.K.Pavan Kumar	M.Tech	Assistant professor	Thermal Power	09	-
17	K.Manjunath	M.Tech	Assistant professor	Thermal Power	15	-

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18	S.P.Jagadish	M.Tech	Assistant professor	Machine Design	13	-
19	K.Suresh Kumar	M.Tech	Assistant professor	CAD/CAM	06	-
20	Y.Mallikarjuna	M.Tech	Assistant professor	Machine Design	06	-
21	V.Balraj	M.Tech	Assistant professor	Machine Design	06	-
22	K.G.Prakash	M.Tech	Assistant professor	Production Engineering	06	-
23	Vithal Rao Chauhan	M.Tech	Assistant professor	Production Technology	06	-
24	B.G.Chandru	M.Tech	Assistant professor	Manufacturin g	05	-
25	Deepak.C	M.Tech	Assistant professor	Production Management	09	-
26	Lakshman	M.Tech	Assistant professor	Machine Design	05	-
27	R.H.M.Somanath Swamy	M.Tech	Assistant professor	Engineering Analysis and	05	-
28	Swamy.N.	M.Tech	Assistant professor	CIM	04	-
29	Maresh.G.	M.Tech	Assistant professor	Thermal Power	04	-
30	G. Manjunath	M.Tech	Assistant professor	Machine Design	04	-
31	Achutananda.K.B.	M.Tech	Assistant professor	Tool Engineering	04	-
32	H.M.Naveen	M.Tech	Assistant professor	Machine Design	04	-
33	B. Basava Prakash	M.Tech	Assistant professor	Thermal Power	03	-

11 List of senior visiting faculty

Sl no	Name of Visiting Faculty	Qualification	Experience
01	-----NIL-----		

12 Percentage of lectures delivered and practical classes handled (programme wise) by temporary faculty

	-----NIL-----
--	---------------

13 Student-Teacher Ratio (Programme wise)

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Student Teacher ratio Programme wise has been mentioned in the table below:

Sl no	Programme	Year	No of students	No of teachers	Student: teacher ratio
1	UNDER GRADUATE BE: (MECHANICAL)	2017-2018	432	27	16
2		2016-2017	432	32	13.5
3		2015-2016	432	32	13.5
4		2014-2015	432	31	13.93
5		2013-2014	432	29	14.89

Sl no	Programme	Year	No of students	No of teachers	Student: teacher ratio
1	POST GRADUATE MTECH: (MPM & TPE)	2017-2018	72	06	12
2		2016-2017	72	06	12
3		2015-2016	72	06	12
4		2014-2015	72	06	12
5		2013-2014	72	06	12

14 Number of academic support staff (technical) and administrative staff; sanctioned and filled

The below given table gives the cadre wise structure of academic support:

	Sanctioned	Filled
Administrative staff		-NIL-
Lab instructor	08	09
Assistants	16	10

15 Qualifications of teaching faculty with DSc /D.Litt / Ph.D / MPhil /PG.

Sl. No	Faculty Name	Qualification
01	Dr. K.Veeresh	M.E, Ph.D
02	Dr. Nagaraj Kori	M.E, Ph.D

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03	Dr. Hiregoudar Yerrannagoudaru	M.E, Ph.D
04	Dr. A Thimmaria Gouda	M.Tech, Ph.D
05	Dr. Chitriki Thotappa	M.E, Ph.D
06	Dr. G. Jagannath Reddy	M.E, Ph.D
07	Dr. S.K.Modi	M.E, Ph.D
08	M R Indhudar	M.E
09	Shivamanappa G Desai	M.E
10	A M Shivaprakash Swamy	M.E
11	Dhandin Ramesh	M.E
12	M Balaji	M.Tech
13	Kotresh Sardar	M.Tech
14	A Swamynath	M.Tech
15	Chandragouda,M	M.Tech
16	P K Pavan Kumar	M.Tech
17	K Manjunath	M.Tech
18	S P Jagadish	M.Tech
19	K Suresh Kumar	M.Tech
20	Y Mallikarjuna	M.Tech
21	V Balraj	M.Tech
22	K G Prakash	M.Tech
23	Vithal Rao Chauhan	M.Tech
24	B G Chandru	M.Tech
25	Deepak C	M.Tech
26	Lakshman Naik T K	M.Tech
27	R H M Somanath Swamy	M.Tech

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28	Swamy N.	M.Tech
29	Mahesh G.	M.Tech
30	G Manjunath Swamy	M.Tech
31	Achutananda K B	M.Tech
32	H M Naveen	M.Tech
33	B Basava Prakash	M.Tech

1 6	Number of faculty with ongoing projects from a)National b)International funding agencies and grants received					
Sl n o	Title of the project	National / international	Funding agency	Principal investigator/ co- investigator	Duration of the project	Amount sanctioned
1	Reduction of Emission using Bimetallic piston in C.I Engine using vegetable oils.	NATIONAL	KSCST	Dr. Hiregoudar Yerrannagoudaru	6 months	Rs. 8000
2	Investigation of Bio-fuels and low Cetane fuels in C.I Engine and Reduction of Exhaust Emissions from the Exhaust gases using semi-adiabatic air-gap bimetallic metal matrices materials crown pistons.	NATIONAL	AICTE	Dr. Hiregoudar Yerrannagoudaru	3 years	Rs.12.4 lacs

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3	Investigation of alcohols (Ethanol) and reduction of emissions CI Engine.	NATIONAL	KSCST	Dr. Hiregoudar Yerrannagoudaru	6 Months	Rs-5000
4	Investigation of Rubber seed oil as alternative fuels in semi-adiabatic Diesel Engine.	NATIONAL	KSCST Dept. Of bio-fuels Govt. Of Karnataka	Dr. Hiregoudar Yerrannagoudaru	6 Months	Rs-15000
5	Experimental Investigation of Jatropha and Hippo oil blended with ethanol using semi-adiabatic air-gap Bimetallic metal matrices crown pistons in twin cylinder Diesel engine and its performance evaluation.	NATIONAL	KSCST	Dr. Hiregoudar Yerrannagoudaru	6 Months	Rs-6000

17	Departmental projects funded by DST-FIST;UGC, DBT, ICSSR, etc. and total grants received		
Sl. No	Title of the project	Funding agency	Amount sanctioned
1	NIL		

18 Research Centre / facility recognized by the University

The Department of Mechanical Engineering is recognized as VTU RESEARCH CENTRE. Since then the research facility is available for

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research scholars to carry out research in their specific area and publish papers in reputed refereed journals and International conferences.

SL- NO.	FACULTY NAME	NO OF PAPERS PUBLISHED IN CONFERENCE	NO OF PAPERS PUBLISHED IN JOURNAL	BOOKS/ CHAPTERS PUBLISHED
1	Dr. Kuppagal Veeresh	01	13	---
2	Dr. Nagaraj Kori	03	04	1
3	Dr. Hiregoudara Yerrenna Goudaru	09	32	--
4	Dr. A Thimmana Gouda	---	07	
5	Dr. G Jagannatha Reddy	--	04	---
6	Dr. Chitriki Thotappa	---	02	--
7	Indudhar M R	---	02	---
8	Dr. Shivakumar Modi	01	04	---
9	Shivamanappa G Desai	---	---	---
10	Dhandin Ramesh	---	---	---
11	A M Shivaprakash Swamy	---	02	---
12	A Swamynath	---	---	---
13	M Chandragowda	--	02	--
14	Vithal Rao Chavan	--	13	--
15	KG Prakash	--	---	---
16	Balaji Madikeri	---	02	---
17	Kotresh Sardar	---	02	--
18	P K Pavan Kumar	---	03	---
19	Manjunath Kondekal	---	26	---
20	Jagadish S P	---	15	---
21	Suresh Kumar K	---	---	---
22	Y Mallikarjuna	--	---	--
23	Balaraj V	--	03	--
24	B G Chandru	---	02	---
25	Deepak C	---	---	----
26	Lakshmana Naik T K	--	02	---
27	Swamy N	---	01	---
28	Manjunath Swamy G	---	01	---
29	Mahesh G	---	---	---
30	Achutananda K B	---	---	---

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31	R H M Somanath Swamy	---	02	---
32	Basavaprakash B	---	---	---
33	H M Naveen	---	---	---

Total No. of papers published in International Journal : 158

Total No. of papers published in National Journal :00

2016-17

Sl no	Title	Author	Name of the Journal	ISSN/IS BN	YEAR	VOLUME
1	Investigation and performance evaluation of hippie seed oilblended with diesel using the twin cylinder diesel engine	Dr Hiregoud aru Yerrenna goudaru	The Clarion International Multidisciplinary Journal	ISSN : 2277-1697 DOI number : 10.5958/2277-937X.2016.00003	2016	5(1)
2	Numerical Investigation and Fatigue Life Estimation of Conventional and Modified Piston of Diesel Engine	Dr Hiregoud aru Yerrenna goudaru	International Journal of Materials, Mechanics and Manufacturing	ISSN: 1793 819 DOI: 10.18178/ijmm.2017.5.2.306	May2017	5(2)
3	An Experimental Investigation of Mahua oil blended with Ethanol as substitute fuel in Diesel Engine	Dr Hiregoud aru Yerrenna goudaru	International Journal of Engineering Research And Advanced Technology (IJERAT)	ISSN: 2454-6135	May 2016	2(1)
4	An Experimental Investigation of using Ethanol as	Dr Hiregoud aru	International Journal of Engineering	ISSN: 2454-6135	May 2016	2(1)

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	additive to Coconut oil on the Performance and Emission characteristics of a Diesel Engine at different loads	Yerrenna goudaru	Research And Advanced Technology (IJERAT)			
5	An Experimental Investigation on Effects of Ethanol Blended Pogamia oil and Diesel Fuel to Engine Performance and Emissions of a Diesel Engine	Dr Hiregoud aru Yerrenna goudaru	International Journal of Engineering Research And Advanced Technology (IJERAT)	ISSN: 2454-6135	May 2016	2(1)
6	Analysis and Comparison of performance and emissions of a Diesel engine fuelled with Diesel and Cottonseed oil blended with Ethanol	Dr Hiregoud aru Yerrenna goudaru	International Journal of Engineering Research And Advanced Technology (IJERAT)	ISSN: 2454-6135	May 2016	2(1)
7	Investigation of Apricot oil blended with Ethanol as substitute fuel in Turbocharged Diesel Engine	Dr Hiregoud aru Yerrenna goudaru	International Journal of Engineering Research And Advanced Technology (IJERAT)	ISSN: 2454-6135	May 2016	2(1)
8	Mango seed oil blended with Ethanol as a Bio fuel and Diesel as a fossil fuel in Twin Cylinder diesel Engine	Dr Hiregoud aru Yerrenna goudaru	International Journal of Engineering Research And Advanced Technology (IJERAT)	ISSN: 2454-6135	May 2016	2(1)

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9	Performance and Emission characteristics of Rape seed oil blended with Ethanol and Diesel in CI Engine	Dr Hiregoudaru Yerrennagoudaru	International Journal of Engineering Research And Advanced Technology (IJERAT)	ISSN: 2454-6135	May 2016	2(1)
10	Investigation And Performance Evaluation of Ethanol Blend with Camfer oil as Alternative Fuels in Diesel Engine	Dr Hiregoudaru Yerrennagoudaru	International Journal of Recent Scientific Research	ISSN: 0976-3031	April 2016	7(4)
11	Combustion and Emission Characteristics of a Direct Injection Compression Ignition Engine Using Pongamia Oil Blended With Methanol	Dr Hiregoudaru Yerrennagoudaru	International Journal of Recent Scientific Research	ISSN: 0976-3031	May 2016	7(5)
12	Engine Performance And Emission Analysis Using Oxidatively Stabilized Cotton Seed Oil Blended with Methanol	Dr Hiregoudaru Yerrennagoudaru	International Journal of Recent Scientific Research	ISSN: 0976-3031	May 2016	7(5)
13	Combustion and Performance Characteristics of CI Engine Running with Mango Seed oil Blended with Methanol	Dr Hiregoudaru Yerrennagoudaru	International Journal of Recent Scientific Research	ISSN: 0976-3031	July 2016	8(7)
14	An Experimental	Dr	International	ISSN:	July	8(7)

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	Investigation on Performance and Exhaust Emissions of Compression Ignition Engine fuelled with Soyabean Blended with Methanol	Hiregoudaru Yerrenna goudaru	al Journal of Recent Scientific Research	0976-3031	2016	
15	Review of Heat Transfer Enhancement in a Heat Exchanger with Partially Filled Porous Media	Dr Hiregoudaru Yerrenna goudaru	International Journal of Current Research	ISSN: 0975-833X	June 2016	8(6)
16	Impacts of Mahua oil Blended with Methanol Combustion on HC, CO, Nox, Smoke Emissions and their Reduction In Diesel Engine	Dr Hiregoudaru Yerrenna goudaru	International Journal of Current Research	ISSN: 0975-833X	June 2016	8(6)
17	Experimental Investigation of Camphor oil and Soyabean Oil Blended with Methanol as Substitute Fuel In Si Engine	Dr Hiregoudaru Yerrenna goudaru	International Journal of Current Research	ISSN: 0975-833X	June 2016	8(6)
18	Impact of Apricot oil blended with Methanol on Performance and Pollutant Emissions in a Compression	Dr Hiregoudaru Yerrenna goudaru	International Organization of Science Research Community of	e-ISSN: 2278-1684, p-ISSN: 2320-334X, DOI:	May -June 2016	13(3)

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	Ignition Engine		Researcher (IOSR) Journal of Mechanical and Civil Engineering (IOSR-JMCE)	10.9790/1684-1303062833.		
19	Investigation of Canola oil and Honge oil Blended With Ethanol as Substitute Fuel in SI Engine	Dr Hiregoudaru Yerrennagoudaru	International Organization of Science Research Community of Researcher (IOSR) Journal of Mechanical and Civil Engineering (IOSR-JMCE)	e-ISSN: 2278-1684,p-ISSN: 2320-334X, DOI: 10.9790/1684-1303052934.	May -June 2016	13(3)
20	Rapeseed oil blended with Methanol on Performances and Emissions in Turbocharged Diesel Engine	Dr Hiregoudaru Yerrennagoudaru	International Organization of Science Research Community of Researcher (IOSR) Journal of Mechanical and Civil Engineering (IOSR-JMCE)	e-ISSN: 2278-1684,p-ISSN: 2320-334X, DOI: 10.9790/1684-1303049196.	May -June 2016	13(3)
21	Investigation and performance evaluation of hippie seed	Manjunatha K	The Clarion International Multidiscipl	ISSN : 2277-1697 DOI	2016	5(1)

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	oilblended with diesel using the twin cylinder diesel engine		inary Journal	number : 10.5958/2277-937X.2016.000003		
22	Numerical Investigation and Fatigue Life Estimation of Conventional and Modified Piston of Diesel Engine	Manjunatha K	International Journal of Materials, Mechanics and Manufacturing	ISSN: 1793-819 DOI: 10.18178/ijmm.2017.5.2.306	May 2017	5(2)
23	An Experimental Investigation of Mahua oil blended with Ethanol as substitute fuel in Diesel Engine	Manjunatha K	International Journal of Engineering Research And Advanced Technology (IJERAT)	ISSN: 2454-6135	May 2016	2(1)
24	An Experimental Investigation of using Ethanol as additive to Coconut oil on the Performance and Emission characteristics of a Diesel Engine at different loads	Manjunatha K	International Journal of Engineering Research And Advanced Technology (IJERAT)	ISSN: 2454-6135	May 2016	2(1)
25	An Experimental Investigation on Effects of Ethanol Blended Pogamia oil and Diesel Fuel to Engine Performance and	Manjunatha K	International Journal of Engineering Research And Advanced Technology	ISSN: 2454-6135	May 2016	2(1)

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	Emissions of a Diesel Engine		(IJERAT)			
26	Analysis and Comparison of performance and emissions of a Diesel engine fuelled with Diesel and Cottonseed oil blended with Ethanol	Manjunatha K	International Journal of Engineering Research And Advanced Technology (IJERAT)	ISSN: 2454-6135	May 2016	2(1)
27	Investigation of Apricot oil blended with Ethanol as substitute fuel in Turbocharged Diesel Engine	Manjunatha K	International Journal of Engineering Research And Advanced Technology (IJERAT)	ISSN: 2454-6135	May 2016	2(1)
28	Mango seed oil blended with Ethanol as a Bio fuel and Diesel as a fossil fuel in Twin Cylinder diesel Engine	Manjunatha K	International Journal of Engineering Research And Advanced Technology (IJERAT)	ISSN: 2454-6135	May 2016	2(1)
29	Performance and Emission characteristics of Rape seed oil blended with Ethanol and Diesel in CI Engine	Manjunatha K	International Journal of Engineering Research And Advanced Technology (IJERAT)	ISSN: 2454-6135	May 2016	2(1)
30	Investigation And Performance Evaluation of Ethanol Blend with Camfer oil as Alternative	Manjunatha K	International Journal of Recent Scientific Research	ISSN: 0976-3031	April 2016	7(4)

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	Fuels in Diesel Engine					
31	Combustion and Emission Characteristics of a Direct Injection Compression Ignition Engine Using Pongamia Oil Blended With Methanol	Manjunatha K	International Journal of Recent Scientific Research	ISSN: 0976-3031	May 2016	7(5)
32	Engine Performance And Emission Analysis Using Oxidatively Stabilized Cotton Seed Oil Blended with Methanol	Manjunatha K	International Journal of Recent Scientific Research	ISSN: 0976-3031	May 2016	7(5)
33	Combustion and Performance Characteristics of CI Engine Running with Mango Seed oil Blended with Methanol	Manjunatha K	International Journal of Recent Scientific Research	ISSN: 0976-3031	July 2016	8(7)
34	An Experimental Investigation on Performance and Exhaust Emissions of Compression Ignition Engine fuelled with Soyabean Blended with Methanol	Manjunatha K	International Journal of Recent Scientific Research	ISSN: 0976-3031	July 2016	8(7)
35	Review of Heat Transfer Enhancement in a Heat Exchanger	Manjunatha K	International Journal of Current Research	ISSN: 0975-833X	June 2016	8(6)

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	with Partially Filled Porous Media					
36	Impacts of Mahua oil Blended with Methanol Combustion on HC, CO, Nox, Smoke Emissions and their Reduction In Diesel Engine	Manjunatha K	International Journal of Current Research	ISSN: 0975-833X	June 2016	8(6)
37	Experimental Investigation of Camphor oil and Soyabean Oil Blended with Methanol as Substitute Fuel In Si Engine	Manjunatha K	International Journal of Current Research	ISSN: 0975-833X	June 2016	8(6)
38	Impact of Apricot oil blended with Methanol on Performance and Pollutant Emissions in a Compression Ignition Engine	Manjunatha K	International Organization of Science Research Community of Researcher (IOSR) Journal of Mechanical and Civil Engineering (IOSR-JMCE)	e-ISSN: 2278-1684, p-ISSN: 2320-334X, DOI: 10.9790/1684-1303062833.	May -June 2016	13(3)
39	Investigation of Canola oil and Honge oil Blended With Ethanol as Substitute Fuel in	Manjunatha K	International Organization of Science Research Community	e-ISSN: 2278-1684, p-ISSN: 2320-334X,	May -June 2016	13(3)

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	SI Engine		of Researcher (IOSR) Journal of Mechanical and Civil Engineering (IOSR- JMCE)	DOI: 10.979 0/1684 - 130305 2934.		
40	Rapeseed oil blended with Methanol on Performances and Emissions in Turbocharged Diesel Engine	Manjunat ha K	Internation al Organizatio n of Science Research Community of Researcher (IOSR) Journal of Mechanical and Civil Engineering (IOSR- JMCE)	e-ISSN: 2278- 1684,p- ISSN: 2320- 334X, DOI: 10.979 0/1684 - 130304 9196.	May -June 2016	13(3)
41	Experimental Investigation of multi cylinder diesel engine using Diesel, Jatropha & apricot oil.	Chandrag owda M	IOSR Journal of Mechanical and Civil Engineering (IOSR- JMCE)	ISSN: 2278- 1684,p- ISSN: 2320- 334X DOI: 10.979 0/1684 - 130301 3440	May -June 2016	13(3)
42	Experimental Investigation of multi cylinder diesel engine fuelled with biodiesel and	Chandrag owda M	IOSR Journal of Mechanical and Civil Engineering (IOSR- JMCE)	ISSN: 2278- 1684,p- ISSN: 2320- 334X	May -June 2016	13(3)

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	diesel fuel.		JMCE)	DOI: 10.979 0/1684 - 130305 98104		
43	Effect of the Tribological Behaviour of Hematite Filled Hybrid Composites – A Taguchi Approach	Vithal Rao Chavan	International Journal of Advances in Scientific Research and Engineering (ijasre)	ISSN: 2454-8006	May 2017	3(4)
44	A Review and Analysis of Mechanical Properties of Aluminium Silicon Carbide – Metal Matrix Composite	Vithal Rao Chavan	International Journal of Advances in Scientific Research and Engineering (ijasre)	ISSN: 2454-8006	June 2016	5(2)
45	Effect of the Tribological Behaviour of Hematite Filled Hybrid Composites – A Taguchi Approach	Dr K. Veeresh	International Journal of Advances in Scientific Research and Engineering (ijasre)	ISSN: 2454-8006	May 2017	3(4)
46	A Review and Analysis of Mechanical Properties of Aluminium Silicon Carbide – Metal Matrix Composite	Dr K. Veeresh	International Journal of Advances in Scientific Research and Engineering (ijasre)	ISSN: 2454-8006	June 2016	5(2)

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47	A Review and Analysis of Mechanical Properties of Aluminium Silicon Carbide – Metal Matrix Composite	Kotresh Sardar	International Journal of Advances in Scientific Research and Engineering (IJASRE)	ISSN: 2454-8006	June 2016	5(2)
48	Investigation On The Effect Of Moisture Content And Temperature On Specific Heat Of Cucumis Melo (Muskmelon)	Dr. Shiva Kumar Modi	International Journal of Mechanical Engineering & Technology (IJMET),	ISSN Print: 0976-6340 and ISSN Online: 0976-6359 Scopus Indexed Journal	April 2017	8(4)
49	Experimental investigation on thermal conductivity of muskmelon (cucumis melo) as a function of moisture content and density by transient analysis	Dr. Shiva Kumar Modi	IJEDR	ISSN: 2321-9939	2016	4(3)
50	A Review and Analysis of Mechanical Properties of Aluminium Silicon Carbide – Metal Matrix Composite	Lakshmana Naik T K	International Journal of Advances in Scientific Research and Engineering (IJASRE)	ISSN: 2454-8006	June 2016	2(5)
51	A Review and	Dr.Kori	International	ISSN:	June	2(5)

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	Analysis of Mechanical Properties of Aluminium Silicon Carbide – Metal Matrix Composite	Nagaraj	al Journal of Advances in Scientific Research and Engineering (IJASRE)	2454-8006	2016	
52	A Review and Analysis of Mechanical Properties of Aluminium Silicon Carbide – Metal Matrix Composite	Balaraj V	International Journal of Advances in Scientific Research and Engineering (IJASRE)	ISSN: 2454-8006	June 2016	2(5)
53	Studies on Dry Sliding Wear Behaviour of Al6061 with Silicon Carbide & Graphite Particulate Composite	M Balaji	International Journal of Innovative Research in Science, Engineering and Technology	ISSN (Print): 2347-6710	Oct 2016	5(10)
54	Studies on Wear Behaviour of Aluminium 6061 Alloy Reinforced with Al ₂ O ₃ & Mica Particulates Hybrid Metal Matrix Comp	M Balaji	International Journal of Innovative Research in Science, Engineering and Technology	ISSN(Online): 2319-8753 ISSN (Print): 2347-6710	June 2016	5(6)
55	Process parametric optimization of Impact test using Taguchi and ANOVA approach	A M Shiva Prakash Swamy	Journal of Mechanical Engineering (IJME)	ISSN 2321-6441	Jan 2016	4(1)
56	Fabrication of Erosion	A M Shiva Prakash	International Journal of	ISSN: 2278-	Nov 2016	5(11)

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	Corrosion Equipment and Testing of Al 6063 Alloy	Swamy	Engineering Research & Technology (IJERT)	0181		
57	hydroxyapatite plasma spray coating and corrosion test on ss316l existing material used as orthopaedic implant material-	Jagadish S P	International journal of engineering research and advanced technology (ijerat)	ISSN:2454-6135	May 2016	2(1)
58	Fabrication And Investigation Of Tensile And Bending-Mechanical And Oxidative Biodegradation Properties Of Hybrid Natural Fibre Reinforced Bio-Composites	Jagadish S P	International Journal of Mechanical Engineering and Technology (IJMET)	ISSN Print: 0976-6340 And ISSN Online: 0976-6359	Jan 2017	8(1)
59	Investigation of Mechanical Properties on 10% of Al ₂ O ₃ and 10% of ZrO ₂ with polyurethane resin Polymer Composite as an Orthopedic Implant	Jagadish S P	IJSART	ISSN [ONLINE]: 2395-1052	June 2016	2(1)
60	Study of Wear properties and Microstructural Analysis on 10% of Al ₂ O ₃ and 10% of ZrO ₂	Jagadish S P	IJSART	ISSN [ONLINE]: 2395-1052	June 2016	2(1)

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	with Polyurethane Resin Polymer Composite as an Orthopedic Implant-					
61	Investigations Of fatigue Test & Corrosion Test ON-SS316L Used As Orthopaedic Implant Material	Jagadish S P	IJSART	ISSN [ONLINE]: 2395-1052	June 2016	2(1)
62	Investigations of Different Coating Techniques & Microstructure Analysis on SS316L used as Orthopaedic Implant Material	Jagadish S P	IJSART	ISSN [ONLINE]: 2395-1052	June 2016	2(1)
63	HRM Practices in IT Sector: An Emperical Study of Wipro. Infotech. Bangalore.	Dr. Chitriki Thotappa	IPASJ International Journal of Mechanical Engineering (IJME)	ISSN 2321-6441	2016	5(1)
64	Cloud-Based College Management Information System for Universities	Dr. Chitriki Thotappa	International Journal of Science and Research (IJSR)	ISSN (Online): 2319-7064	May 2016	5(5)
65	Experimental Investigation of Welder Modification at PLTCM	Dr. Jagannaath Reddy	IJSRD	ISSN: 2321-0613	Dec 2016	3
66	Charcterization of tensile and impact properties of polymer hybrid	R H M Somanath Swamy	IJERT		June 2016	5(6)

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	composites					
67	Investigation of tensile, compression and fastening properties for the glass and hemp polymer hybrid composites	B G Chandru	IJERT		June 2016	5(6)
68	Dual fuel engines fuelled with three gaseous and biodiesel fuel combinations	M R Indhudar	Taylor & Francis	ISSN: 1759-7277	2016	8(1)
69	Fire Fighting System in Auto Mode for Tunnel Conveyors	Vithal Rao Chavan	International Journal of Research	2348-795X	AUG 2017	04(09)
70	Reduction of Losses of Conveyor Belt Due To Rupture Caused By Foreign Materials	Vithal Rao Chavan	International Journal of Research	2348-795X	AUG 2017	04(09)
71	Fire Fighting System in Auto Mode for Tunnel Conveyors	Dr.K.Veeresh	International Journal of Research	2348-795X	AUG 2017	04(09)
72	Reduction of Losses of Conveyor Belt Due To Rupture Caused By Foreign Materials	Dr.K.Veeresh	International Journal of Research	2348-795X	AUG 2017	04(09)
2015-16						
73	An Experimental Investigation of using Ethanol as Additive to Coconut oil on	Dr. Hiregoudaru Yerranna Goudaru	International Journal of Engine Research and	ISSN: 2454-6135	May 2016	Volume-2, Issue 1

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	the Performance and Emissions Characteristics of diesel engine at different loads		Advanced Technology,			
74	Rapeseed Oil Blended With Methanol On Performances And Emissions In Turbocharged Diesel Engine	Dr. Hiregoudaru Yerranna Goudaru	IOSR Journal of Mechanical and Civil Engineering (IOSR-JMCE)	e-ISSN: 2278-1684	May-Jun.2016	Volume 13, Issue 3
75	Investigation Of Canola Oil And Honge Oil Blended With Ethanol As Substitute Fuel In SI Engine	Dr. Hiregoudaru Yerranna Goudaru	IOSR Journal of Mechanical and Civil Engineering (IOSR-JMCE)	e-ISSN: 2278-1684	May-Jun.2016	Volume 13, Issue 3 Ver. V
76	Impact of Apricot Oil Blended With Methanol On Performance And Pollutant Emissions In A Compression Ignition Engine	Dr. Hiregoudaru Yerranna Goudaru	IOSR Journal of Mechanical and Civil Engineering (IOSR-JMCE)	e-ISSN: 2278-1684	May-Jun.2016	Volume 13, Issue 3
77	Design and Development of a New Piston using Nimonic Alloy 80A for Low Cetane Fuels usage in CI Engines	Dr. Hiregoudaru Yerranna Goudaru	5th International Conference on Materials Processing and Characterization		June 26 th to 28 th , 2016	
78	Comparison of Aldehydes Emissions in Alcohols blended with Vegetable oils fuelled CI engine	Dr. Hiregoudaru Yerranna Goudaru	5th International Conference on Materials Processing		June 26 th to 28 th , 2016	

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	using with and without Ceramic and Platinum Coated Pistons		and Characterization			
79	Investigation Of Apricot Oil blended with Ethanol as substitute fuel in turbocharged diesel engine	Dr. Hiregoudaru Yerranna Goudaru	International Journal of Engine Research and Advanced Technology	ISSN: 2454-6135	May 2016	Volume-2, Issue - 1.
80	Mango Seed Oil blended with Ethanol as Bio-fuel and diesel as a fossil fuel in Twin Cylinder Diesel Engine	Dr. Hiregoudaru Yerranna Goudaru	International Journal of Engine Research and Advanced Technology	ISSN: 2454-6135	May 2016	Volume-2, Issue - 1
81	Analysis and Comparison of Performance and Emissions of a Diesel Engine fueled with diesel and Cotton Seed oil blended with Ethanol	Dr. Hiregoudaru Yerranna Goudaru	International Journal of Engine Research and Advanced Technology	ISSN: 2454-6135	May 2016,	Volume-2, Issue - 1
82	Performance and Emission Characteristics of Rape Seed oil blended with ethanol and diesel in CI Engine	Dr. Hiregoudaru Yerranna Goudaru	International Journal of Engine Research and Advanced Technology	ISSN: 2454-6135	May 2016	Volume-2, Issue - 1
83	An Experimental Investigation of Mahua oil blended with Ethanol as substitute fuel in diesel engine	Dr. Hiregoudaru Yerranna Goudaru	International Journal of Engine Research and Advanced Technology	ISSN: 2454-6135	May 2016	Volume-2, Issue - 1

84	An Experimental Investigation on Effects of Ethanol blended Pongamia Oil and Diesel Fuel to Engine Performance and Emissions of diesel Engine	Dr. Hiregoudaru Yerranna Goudaru	International Journal of Engine Research and Advanced Technology	ISSN: 2454-6135	May 2016	Volume-2, Issue -1,
85	Experimental Investigation of Multy Cylinder Diesel Engine Fuelled with Bio-Diesel and Diesel Fuel	Dr. Hiregoudaru Yerranna Goudaru	IOSR Journal of Mechanical and Civil Engineering	e-ISSN: 2278-1684	May-Jun.2016	Volume 13, Issue 3
86	Investigation Of A Diesel Engine With Ceramic And Platinum Coated Piston Using Canol Oil, Soybean Oil and Palm Oil Blended With Ethanol.	Dr. Hiregoudaru Yerranna Goudaru	5 th International Conference on Materials Processing and Characterization		March 2016.	
87	Numerical Investigation and Fatigue Life Estimation On Conventional and Modified Pistons Of Diesel Engine	Dr. Hiregoudaru Yerranna Goudaru	2nd International Conference on Mechanical, Aeronautics and Automotive engineering		September 3-4, 2015.	
88	Investigation of Ethanol in Common Rail Direct Injection (CRDI) Diesel Engine	Dr. Hiregoudaru Yerranna Goudaru	International Conference on Science, technology and		2nd August 2015	

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			Management			
89	An Experimental Investigation of Heat Transfer Performance for Forced Convection of Water in a Horizontal pipe partially filled with a Porous Medium	K Manjunath	International Organization of Science Research Community of Researcher (IOSR) Journal of Mechanical and Civil Engineering (IOSR-JMCE)	e-ISSN: 2278-1684, p-ISSN: 2320-334X,	(Jul. - Aug. 2016)	Volume 13, Issue 4
90	An Experimental Investigation of Heat Transfer Performance for Forced Convection of Water in a Horizontal pipe partially filled with a Porous Medium	K Manjunath	International Organization of Science Research Community of Researcher (IOSR) Journal of Mechanical and Civil Engineering (IOSR-JMCE)	e-ISSN: 2278-1684, p-ISSN: 2320-334X	(Jul. - Aug. 2016)	Volume 13, Issue 4
91	Utilization Nano Fluids for Heat Exchanger	K Manjunath	International Journal of Recent Development in Engineering and Technology	SSN 2347 - 6435	August 2016)	Volume 5, Issue 8
92	Investigation And Performance	K Manjunath	International Journal of	ISSN 2278 -	September	Volume No.

	Evaluation Of Pine oil Blended With Diesel Using The Twin Cylinder Diesel Engine	h	latest technology in management and applied science,	2540)	2015	IV, Issue No. IX
93	Investigation of Apricot oil blended with Ethanol as substitute fuel in Turbocharged Diesel Engine	K Manjunath	International Journal of Engineering Research And Advanced Technology (IJERAT)	ISSN: 2454-6135	May-2016	Volume. 02 Issue. 01
94	Mango seed oil blended with Ethanol as a Bio fuel and Diesel as a fossil fuel in Twin Cylinder diesel Engine	K Manjunath	International Journal of Engineering Research And Advanced Technology (IJERAT)), ISSN: 2454-6135	May-2016	Volume. 02 Issue. 01
95	Investigation of Mechanical Properties on 10% of Al ₂ O ₃ and 10% of ZrO ₂ with polyurethane resin Polymer Composite as an Orthopaedic Implant	S P Jagadish	IJSART		JUNE 2016	Volume 2, Issue 6
96	Investigations of Different Coating Techniques & Microstructure Analysis on SS316L used as Orthopaedic	S P Jagadish	IJSART		JUNE 2016	Volume 2, Issue 6,

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	Implant Material					
97	Investigations Of fatigue Test & Corrosion Test ON-SS316L Used As Orthopaedic Implant Material	S P Jagadish	IJSART		JUNE 2016	Volume 2, Issue 6,
98	Evaluation of mechanical properties of existing material SS316L used as femur bone implant material.	S P Jagadish	IJIRTS	ISSN:23 21- 1156		Volume 3,
99	Analysis of mechanical properties of carbon fiber polymer Composite materials used as orthopaedic implants.	S P Jagadish	IJMER	ISSN: 2249- 6645	August 2015	Volume 5, Issue 8,
100	Hydroxyapatite Plasma Spray Coating And Corrosion Test On SS316l Existing Material Used As Orthopaedic Implant Material	S P Jagadish	IJERAT	ISSN: 2454- 6135	May- 2016,	Issue.0 1,
101	A review and analysis of mechanical properties of Aluminium Silicon Carbide- Metal Matrix Composites	V Balraj	IJASRE		July- 2016	Volume 2, Issue 6
102	A review and analysis of	Dr. Kori Nagraj	IJASRE,		July- 2016	Volume 2,

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	mechanical properties of Aluminium Silicon Carbide-Metal Matrix Composites					Issue 6
103	A review and analysis of mechanical properties of Aluminium Silicon Carbide-Metal Matrix Composites	Lakshman Naik T K	IJASRE,		July-2016	Volume 2, Issue 6
104	Influence of ceria oxide as filler material on E-glass fiber/epoxy reinforced hybrid composites,	Dr. K. Veeresh	International Journal of advances in scientific research and Engineering			Volume 2, Issue 6
105	Fabrication and Experimental Study on Optimization of Process Parameters for Drilling of GFRP with Iron Ore as Filler Material using Taguchi And ANOVA	Dr. K. Veeresh	International Journal of Applied Engineering Research	ISSN 0973-4562	(2015)	Vol. 10
106	Effect of The Tribological Behaviour of Hematite Filled Hybrid Composites- A Taguchi Approach.	Dr. K. Veeresh	International Journal of Engineering research and Advanced Technology		01May 2016	
10	Experimental	Dr.	IJSRD	ISSN:	Dec	Vol.3

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7	Investigation of Welder Modification at PLTCM	Jagannaath Reddy		2321-0613	2016	
108	Investigation of tensile, compression and fastening properties for the glass and hemp polymer hybrid composites	G Manjunath Swamy	IJERT			Vol 5, Issue 6,
109	Characterization of tensile and impact properties of polymer hybrid composites	R H M Somanath Swamy	IJERT		June 2016	Vol 5 Issue 6
110	Investigation of tensile, compression and fastening properties for the glass and hemp polymer hybrid composites	B G Chandru	IJERT		June 2016	Vol 5 Issue 6
111	Effect of injection timing and injection pressure on the performance of biodiesel ester of honge oil fuelled common rail direct injection (CRDI) engine	M R Indhudar	IJEST,		2015	Volume 7 Issue 4
112	Dual fuel engines fuelled with three gaseous and biodiesel fuel combinations.	M R Indhudar	Taylor & Francis,	1759-7277, 2016		Volume 8, Issue 1

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113	Process parametric optimization of Impact test using Taguchi and ANOVA approach	A M Shiva Prakash Swamy	IJME		Jan 2016	Vol. 4
114	Studies on Wear Behaviour of Alluminium 6061 Alloy Reinforced with Al ₂ O ₃ and Mica Particulates Hybrid Metal Matrix Composite	M. Balaji	IJIRSET,		June 2016	Vol.5, Issue 6,
115	Studies on Wear Behaviour of Alluminium 6061 With Silicon Carbide and Graphite Particulate Composite	M. Balaji	IJIRSET,		Oct-2016	Vol.5,
116	To Study Performance of two stroke SI engine with new carburettor to find the optimal results by Taguchi method	P K Pavan Kumar	JNTUA		2015,	
2014-15						
117	Numerical Investigation And Fatigue Life Estimation Of Conventional Diesel Engine Piston	Dr. Hiregoudaru Yerranna Goudaru	International Organization Of Science Research Community Of Researcher (IOSR)IOSR Journal Of	E-ISSN: 2278-1684,P-Issn: 2320-334x, Pp 51-55 www.iosrjournals.org	Mar - Apr. 2015	Volume 12, Issue 2 Ver. Iii

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			Mechanical And Civil Engineering (IOSR-JMCE)	g		
118	Investigation and Piston to piston comparison of Twin Cylinder Diesel Engine Fueled with Pongamia oil and Diesel oil	Dr. Hiregoudaru Yerranna Goudaru	International Conference on Mechanical, Aeronautics and Production Engineering (ICMAPE)	II-MAPEI TL-28035-439	7th to 9th May 2015	--
119	Investigation and Piston to piston comparison of Twin Cylinder Diesel Engine Fueled with Pongamia oil and Diesel oil	Dr. Hiregoudaru Yerranna Goudaru	International Conference on Mechanical, Aeronautics and Production Engineering (ICMAPE)	II-MAPEI TL-28035-439	28th March 2015.	---
120	Investigation of Methanol in Twin cylinder in line 4 Stroke liquid cooled Diesel Engine	Dr. Hiregoudaru Yerranna Goudaru	International Conference on Mechanical, Aeronautics and Production Engineering (ICMAPE)	II-RIETCH N-26075-1467	26th July 2015	----
121	Investigation and Performance Evaluation of Ethanol Blends With Vegetable Oils as Alternative Fuels	Dr. Hiregoudaru Yerranna Goudaru	8th International Conference on Industrial, Mechanical	ICIMP-29APR 15BAN G032	2015	

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	in Diesel Engine		and Production Engineering : Advanceme nts and Current Trends (ICIMP- 2015) , Institute for Research and Developme nt			
12 2	Wear study on Hybrid natural Fibre polymer composite materials used as orthopaedic implants	S P Jagadish	National conference on emerging Trends in Engineerin g Manageme nt (NCETEM- 2014 at JSS- Academy of Technical Education, Bangalore	---	2014	
12 3	Comparison of mechanical properties and economical status of Hybrid Natural Fibre Polymer Composite Materials with existing material SS316L	S P Jagadish	Internation al Journal of Advances in Engineering & Technology	Vol. 6, Issue 6 pp. 2745- 2757	2014	

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	used as femur bone Implant materia					
124	Comparison of mechanical properties and economical status of hybrid natural fibre polymer composite material with existing material ss316l used as femur bone implant material	S P Jagadish		NCETE MET	2014	
125	"Investigation of mechanical properties of Bi-Directional Hybrid Natural Fiber-Sisal Banana Jute Hemp polymer Composite materials used as orthopaedic implants"	S P Jagadish	International Conference on civil, mechanical, biological and medical engineering (ICEECE) held at Chennai on (IRA) RESEARCH FORUM in association with INSTITUTE OF RESEARCH AND JOURNALS - International Conference on civil, mechanical,			

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			biological and medical engineering -ICEEECE - CHENNAI) and published in- International Journal of Mechanical And Production Engineering			
126	Characterization and Investigation of mechanical properties of hybrid natural fiber polymer composite materials used as Orthopaedic implants for femur bone prosthesis	S P Jagadish	IQSR Journal of Mechanical and Civil Engineering	pp. 40-52	AUG 2014	Volume 11, Issue 4
127	Characterization and Investigation of Tensile Test on Sisal Fiber Reinforced Polyester Composite Material	Dr. K Veeresh	IJRDET	2347-6435	Oct 2014	Volume 3, Issue 4
128	Evaluating the influence of fiber orientation and filler content on tensile, hardness, and impact strength of	Dr. K Veeresh	IJRAME	2321-3051	Jan 2015	Vol 3, Issue 1

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	hybrid laminated composites					
129	Fabrication and Evaluation of Mechanical Properties of Fe ₂ O ₃ particulate Filled Hybrid Composites	Dr. K Veeresh	International Journal of Recent Development in Engineering and Technology		OCT 2014	Volume 3 Issue 4
130	Investigation on Mechanical Properties of E-Glass GP resin with 40 and 60 percent Fe content Hematite ore filled slash hybrid composites	Dr. K Veeresh	International journal of research in aeronautical and mechanical engineering	Issue.1, ISSN (online): 2321-3051	January 2015	
131	Analysis of Mechanical Properties of Glass / Orthophthalic Polyester Resin with Hematite Ore filled Composites	Dr. K Veeresh	Journal of the International Association of Advanced Technology and Science	ISSN-3347-4482	2015	
132	Fabrication and Experimental Study on Optimization of Process Parameters for Drilling of GFRP with Iron Ore as Filler Material using Taguchi And ANOVA	Dr. K Veeresh	International Journal of Applied Engineering Research	ISSN 0973-4562	2015	
133	Fabrication and Investigation of	K Sardar	IJRDET	Issue.6	December	, Vol.3

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	Bending Test on Hybrid (Sisal and Banana) Fiber Reinforced Polyester Composite Material				.2014	
134	Effect of T6 type heat treatment on the Mechanical characterization of Al6061 Al2O3 particulate composites	V.Balaraj		Issue 5	April. May. 2015.	Vol. 3
135	To Study Performance of Two Stroke SI Engine Using Optimization Techniques	P.K. Pavan Kumar	IJESIT	ISSN: 2319-5967, Issue 3	May 2015	
136	Optimization of Process Parameters of Two Stroke SI Engine	P.K. Pavan Kumar	IOSR-JMCE		Jul. - Aug. 2015	Volume 12
137	Effect of moisture content and temperature on thermal conductivity of Psidium guajava L. by line heat source method (transient analysis)	Shiva Kumar Modi	International Journal of Heat and Mass Transfer,	pp.354-359	2014	Volume 78
138	An Experimental Study on Drying Kinetics of	Shiva Kumar Modi	IOSR Journal of Environmen	, Issue 1 Ver. I (Jan.	2015	Volume 9

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	Guava Fruit (Psidium Guajava L) By Thin Layer Drying		tal Science, Toxicology and Food Technology	2015), PP 74-80		
139	Fabrication & Evaluation of Mechanical Properties of Fe ₂ O ₃ Particulate Filled Hybrid Composites	Dr. G. Jagannath Reddy	JIAATS	ISSN: 3347-4482	Mar 2015	
140	Experimental Investigation of Welder Modification at PLTCM	Dr. G. Jagannath Reddy	JIAATS	ISSN: 3347-4482	Mar 2015	
141	Dry sliding wear behavior of aluminium alloy reinforced with sic metal matrix composites using taguchi method	Lakshmana Naik	IJMERR	No.4,	October 2014	Vol.3
142	KAIZEN - A case study	Vithal Rao Chauhan	International journal of research in aeronautical and mechanical engineering	Issue.1, ISSN (online): 2321-3051,	January 2015	
143	Analysis of Mechanical Properties of Glass / Orthophthalic Polyester Resin with Hematite Ore filled Composites	Vithal Rao Chauhan	International Journal of Engineering and Management Research	Issue-1, ISSN (ONLINE): 2250-0758, ISSN (PRINT):	February-2015	

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				2394-6962		
144	Evaluating the influence of fiber orientation and filler content on tensile, hardness, and impact strength of hybrid laminated composites	Vithal Rao Chauhan	Global Journal of Engineering Science and Research Management	Issue-1, ISSN: 2349-4506	February, 2015	
145	Influence of Feathers on Mechanical Properties of Glass/Unsaturated Polyester Hybrid Composite	Vithal Rao Chauhan	International Journal of Research (IJR)	Issue 2 e-ISSN: 2348-6848, p-ISSN: 2348-795X,	March 2015	
146	Investigation on Mechanical Properties of E-Glass/Epoxy Resin with Asbestos Filled Hybrid Composites	Vithal Rao Chauhan	NCETEM		Nov 2014	
147	An Experimental Study of Mechanical Properties of GFRP Hybrid Composite with Different Fillers	Vithal Rao Chauhan	Journal of the International Association of Advanced Technology and Science	ISSN-3347-4482	March 2015	
148	Investigation on Mechanical Properties of E-Glass, GP Resin with 40 and 60 percent FE	Vithal Rao Chauhan	NCETEM		Nov 2014	

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	content hematite ore filled /hybrid composiotes					
149	Fabrication and Evaluation of Mechanical Properties of Fe ₂ O ₃ particulate Filled Hybrid Composites	Vithal Rao Chauhan	Journal of the International Association of Advanced Technology and Science	ISSN-3347-4482	March 2015	
150	Experimental Investigation of twin cylinder diesel engine using Jatropha and Hippie oil blend with ethanol	Vithal Rao Chauhan	www.iosrjournals.com		Jan-feb 2015	Issue 1.
151	Characterisation of Aluminium alloy particulate reinforced metal matrix composite.	Swamy N	Scientific research and engineering	Page no.30-38	July 2015	Vol 1, issue 1
152	characterization and analysis of wear study on sisal fibre reinforcement epoxy composite materials used as orthopaedic implant.	Dr. A. Thimman a Gouda	International Journal of Advances in Engineering & Technology, IJAET	ISSN: 22311963,	Jan. 2014	Vol. 6, Issue 6, pp. 2745-2757,
153	Characterization And Investigation Of Mechanical	Dr. A. Thimman a Gouda	IOSR Journal of Mechanical		July-Aug 2014	Vol. 11, Issue4,

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	Properties Of Hybrid Natural Fiber Polymer Composite Materials Used As Orthopaedic Implants For Femur Bone Prosthesis		& Civil Engineering			
154	Effect Of Process Parameters On Flatness Of Plastic component	Dr. A. Thimman a Gouda	International Journal of Mechanical Engineering and Technology,		April 2014,	Volume 5, Issue 4, pp 103-109
155	Development Of Strategic Plan In A Technical Educational Institution Through Swot Analysis	Dr. A. Thimman a Gouda	International Journal of Industrial Engineering Research and development,		March - April (2014),	Volume 5, Issue 2, pp. 18-24
156	Wear Study On Hybrid Natural Fiber Polymer Composite Materials Used As Orthopaedic Implants	Dr. A. Thimman a Gouda	International Journal of Advanced Trends in Computer Science and Engineering		2014,	Vol.3 , No.4, pp-21-28,
157	Evaluation Of Mechanical Properties Of	Dr. A. Thimman a Gouda	International Journal of Innovative		2014	Vol. 2, No. 4

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	Existing Material SS316L Used As Femur Bone Implant Material		Research in Technology & Science,			
15 8	Analysis of Mechanical properties of Carbon fiber polymer composites used as orthopaedic implants	Dr. A. Thimman a Gouda	(IJMER),		Augu st 2015.	

Number of publications listed in International Database (For Eg: Web of Science, Scopus, Humanities International Complete, Dare Database- International Social Sciences Directory, EBSCOhost, etc.)

	Title	Author	Name of the Journal	ISSN/I SBN	YEA R	VOLU ME
01	Fabrication And Investigation Of Tensile and Bending- Mechanical And Oxidative Biodegradation Properties Of Hybrid Natural Fibre Reinforced Bio-Composites	S P Jagadish	Internation al Journal of Mechanical Engineering and Technology (IJMET)	ISSN 0976 - 6340	2017	Volum e 8, Issue 1, pp. 01- 14,
02	Fabrication And Investigation Of Tensile and Bending- Mechanical And Oxidative Biodegradation Properties Of	Dr.A. Thimman a goud	Internation al Journal of Mechanical Engineering and Technology (IJMET)	ISSN 0976 - 6340	2017	Volum e 8, Issue 1, pp. 01- 14,

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	Hybrid Natural Fibre Reinforced Bio-Composites					
03	Dual fuel engines fuelled with three gaseous and biodiesel fuel combinations	M R Indhudar	Taylor & Francis,Bio-Fuels	1759-7277	2016	Volume 8, Issue 1,pg-1-13
04	Combustion and exhaust emissions study in a single cylinder four stroke diesel engine with swirl augmentation techniques	M R Indhudar	Taylor & Francis,Bio-Fuels	1759-7277	2016	Volume 9, Issue 1, page1-14
05	An Experimental Investigation of Heat Transfer Performance for Forced Convection of Water in a Horizontal pipe partially filled with a Porous Medium	Manjunatha K	International Organization of Science Research Community of Researcher (IOSR) Journal of Mechanical and Civil Engineering	ISSN: 2278-1684	2016	Volume 13, Issue 4 PP 131-140
06	An Experimental Investigation on Effects of Ethanol Blended Pogamia	Manjunatha K	International Journal of Engineering Research	ISSN: 2454-6135	2016	Volume. 02 Issue.01 pg no

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	oil and Diesel Fuel to Engine Performance and Emissions of a Diesel Engine		And Advanced Technology			206-212.
07	Utilization Nano Fluids for Heat Exchanger	Manjunatha K	International Journal of Recent Development in Engineering and Technology	ISSN 2347-6435	2016	Volume 5, Issue 8
08	Investigation of Apricot oil blended with Ethanol as substitute fuel in Turbocharged Diesel Engine	Manjunatha K	International Journal of Engineering Research And Advanced Technology	ISSN: 2454-6135	2016	Volume .02 Issue 01 Page no 279 - 285.
09	Mango seed oil blended with Ethanol as a Bio fuel and Diesel as a fossil fuel in Twin Cylinder diesel Engine	Manjunatha K	International Journal of Engineering Research And Advanced Technology (IJERAT)	ISSN: 2454-6135	2016	Volume .02 Issue 01 Page no 286 - 292.
10	An Experimental	Dr Hiregoud	International	ISSN: 2454-	2016	special

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	Investigation of using Ethanol as Additive to Coconut oil on the Performance and Emissions Characteristics of diesel engine at different loads	aruYerrannagoudaru	al Journal of Engine Research and Advanced Technology	6135		Volume - 2, Issue- 1 pp- 198 - 205.
11	Studies On Dry Sliding Wear Behavior Of A16061 With Silicon Carbide & Graphite Particulate Composite	Dr Hiregoud aruYerrannagoudaru	International Journal Of Innovative Research In Science, Engineering And Technology	ISSN- 2347-6710	2016	Volume -5, Issue- 10, PP 184-26-184-33
12	Rapeseed Oil Blended With Methanol On Performances And Emissions In Turbocharged Diesel Engine	Dr Hiregoud aru Yerrannagoudaru	Journal of Mechanical and Civil Engineering	ISSN: 2278-1684	2016	Volume 13, Issue 3 Ver. IV PP 91-96
13	Investigation Of Canola Oil And Honge Oil Blended With Ethanol As Substitute Fuel In	Dr Hiregoud aruYerrannagoudaru	Journal of Mechanical and Civil Engineering	ISSN: 2278-1684	2016	Volume 13, Issue 3 Ver. V

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	SI Engine					PP 29- 34,
14	Impact of Apricot Oil Blended With Methanol On Performance And Pollutant Emissions In A Compression Ignition Engine	Dr Hiregoud aruYerrannagoudaru	Journal of Mechanical and Civil Engineering	ISSN: 2278-1684	2016	Volume 13, Issue 3 Ver. VI PP 28-33
15	Investigation Of Apricot Oil blended with Ethanol as substitute fuel in turbocharged diesel engine	Dr Hiregoud aruYerrannagoudaru	International Journal of Engine Research and Advanced Technology	ISSN: 2454-6135	2016	Volume-2, Issue - 1, pp-279-285.
16	Mango Seed Oil blended with Ethanol as Bio-fuel and diesel as a fossil fuel in Twin Cylinder Diesel Engine	Dr Hiregoud aruYerrannagoudaru	International Journal of Engine Research and Advanced Technology	ISSN: 2454-6135	2016	special Volume-2, Issue - 1, PP-286-292.
17	Analysis and Comparison of Performance and Emissions of a Diesel Engine fueled with diesel and Cotton Seed oil blended	Dr Hiregoud aruYerrannagoudaru	International Journal of Engine Research and Advanced Technology	ISSN: 2454-6135	2016	special Volume-2, Issue - 1, PP-213-219.

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	with Ethanol					
18	Performance and Emission Characteristics of Rape Seed oil blended with ethanol and diesel in CI Engine	Dr Hiregoud aruYerrannagoudaru	International Journal of Engine Research and Advanced Technology,	ISSN: 2454-6135	2016	special Volume-2, Issue - 1, PP- 293-299.
19	An Experimental Investigation of Mahua oil blended with Ethanol as substitute fuel in diesel engine	Dr Hiregoud aruYerrannagoudaru	International Journal of Engine Research and Advanced Technology	ISSN: 2454-6135	2016	special Volume-2, Issue - 1, May 2016, PP- 191-197.
20	An Experimental Investigation on Effects of Ethanol blended Pongamia Oil and Diesel Fuel to Engine Performance and Emissions of diesel Engine	Dr Hiregoud aruYerrannagoudaru	International Journal of Engine Research and Advanced Technology	ISSN: 2454-6135	2016	special Volume-2, Issue - 1, PP- 206-212.
21	Experimental Investigation of Multy Cylinder Diesel Engine Fuelled with Bio-Diesel and Diesel	Dr Hiregoud aruYerrannagoudaru	IOSR Journal of Mechanical and Civil Engineering	ISSN: 2278-1684	2016	Volume 13, Issue 3 Ver. V PP 98-104.

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	Fuel					
22	An Experimental Study on Drying Kinetics of Guava Fruit (Psidium Guajava L) By Thin Layer Drying	Shiva Kumar Modi	IOSR Journal of Environmental Science, Toxicology and Food Technology		2015	Volume 9, PP 74-80
23	Fabrication and Experimental Study on Optimization of Process Parameters for Drilling of GFRP with Iron Ore as Filler Material using Taguchi And ANOVA	Vithal rao chavan	International Journal of Applied Engineering Research	ISSN 0973-4562	2015	Volume 10, Number 22 pp 43195-43198
24	Effect of Injection timing and injection pressure on the performance of biodiesel ester of honge oil fuelled common rail direct injection (CRDI) engine	M R Indhudar	IJEST,		2015	Volume 7 Issue 4, 37-48
25	Fabrication and Experimental Study on Optimization of Process Parameters for	Dr.K.Veeresh	International Journal of Applied Engineering Research	ISSN 0973-4562	2015	Volume 10, Number 22 pp 43195-43198

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	Drilling of GFRP with Iron Ore as Filler Material using Taguchi And ANOVA					
26	Investigation And Performance Evaluation Of Pine oil Blended With Diesel Using The Twin Cylinder Diesel Engine	Manjunatha K	International Journal of latest technology in management and applied science	ISSN 2278 - 2540	2015	Volume No. IV, Issue No. IX, PP 01-05
27	Investigation And Performance Evaluation of Honge Seed Oil Blended With Diesel Using The Twin Cylinder Diesel Engine	Manjunatha K	International Journal Of Advance Foundation And Research In Science & Engineering (IJAFRSE)	ISSN: 2349-4794	2015	2 (3)
28	Numerical Investigation And Fatigue Life Estimation Of Conventional Diesel Engine Piston	Dr Hiregoudaru Yerranagoudaru	International Organization Of Science Research Community Of Researcher (IOSR) IOSR Journal Of	ISSN: 2278-1684	2015	Volume 12, Issue 2 Ver. Iii (Mar - Apr. 2015), Pp 51-55

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			Mechanical And Civil Engineerin g			
29	Performance & Emission of C I Engine Using Diesel & Ethanol Blended with Jatropha Oil	Manjunat ha K	Internation al Journal of Recent Developme nt in Engineering and Technology	ISSN 2347 - 6435	2014	Volum e 2, Issue 6
30	Performance & emission of C I Engine Using Diesel & Ethanol blended with linseed oil	Manjunat ha K	Internation al Journal of Engineering Science and Innovative Technology (IJESIT)	ISSN: 2319- 5967	2014	Volum e 3, Issue 4
31	Experimental Investigation of Twin Cylinder Diesel Engine Using Diesel &Methanol	Manjunat ha K	Internation al Journal of modern Engineering research, (I JMER)	ISSN 2249 - 6645	2014	4(7)
32	Effect of moisture content and temperature on thermal conductivity of Psidium guajava L. by line heat source method (transient analysis)	Shiva Kumar Modi	Internation al Journal of Heat and Mass Transfer, Elsevier		2014	Volum e 78, pp.354 -359
33	Characterization	S P	IOSR	ISSN:	2014	Volum

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	and Investigation of Mechanical Properties of Hybrid Natural Fiber Polymer Composite Materials Used As Orthopaedic Implants for Femur Bone Prosthesis	Jagadish	Journal of Mechanical and Civil Engineering	2278- 1684		e 11, Issue 4, PP 40- 52
34	Characterization and Investigation of Mechanical Properties of Hybrid Natural Fiber Polymer Composite Materials Used As Orthopaedic Implants for Femur Bone Prosthesis	Dr.A. Thimman a goud	IOSR Journal of Mechanical and Civil Engineering	ISSN: 2278- 1684	2014	Volum e 11, Issue 4, PP 4
35	The Influence of Moisture Content and Density on Thermal Conductivity of Ficus Carica Linnaus (Fig Fruit) by Transient Line Heat Source Method	Shiva Kumar Modi	Internation al Journal of Engineering and Innovative Technology	ISSN: 2277- 3754	2013	Volum e 3, Issue 6
36	Numerical	Vaddin	Internation	ISSN:		Volum

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	Investigations of PGT10 Gas Turbine Exhaust Diffuser Using Hexahedral Dominant Grid	Chetan	al Journal of Engineering and Innovative Technology	2277-3754	July 2013	e 3, Issue 1
Monographs						
Provide list						
Chapter in Books						
Provide list						
Books Edited						
Provide list						
Books with ISBN/ISSN numbers with details of publishers						
Provide list						
Citation Index						
Provide list						
SNIP						
Provide list						
SJR						
Provide list						
Impact factor						
Provide list						
h-index						
Provide list						

20	Areas of consultancy and income generated			
	Sl no	Consultancy work	year	Amount generated
	1	-----NIL-----		

21	Faculty as members in		
a)	National committees		
	Sl no	Faculty name	Committee member
	1		
b)	Faculty name		
	Sl no		Committee member

1	- NIL -
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22 Student projects

Students are encouraged to carry out research oriented projects which are of social relevance involving state-of-art and inclusive technology. Students get an opportunity to use latest tools and technical know-how in the process of executing the project.

- Students are provided the required infrastructure to do their projects (in-house).
- Risks are discussed at each project progress review meeting.
- The Department keeps track of the progress of the project in terms of completion, time and costs.
- To enforce team work, students are asked to form a group of 3 to 4 members to carry out the project work. This enables them to build team spirit and helps in co-coordinating various activities.

a) Percentage of students who have done in-house projects including interdepartmental / programme

b) Percentage of students placed for projects in organizations outside the institution i.e. in Research laboratories / Industry / other agencies

* SI no	Programme	Year	% of projects done inside the Institute [a]	% of projects done outside Institute [b]
	Under Graduate BE (Mechanical Engineering)	2016-2017	75	25
		2015-2016	80	20
		2014-2015	80	20
		2013-2014	75	25
	Post Graduate M.Tech(TPE & PM)	2016-2017	80	20
		2015-2016	85	15
		2014-2015	75	25

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			2013-2014	50	50
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23 Awards / Recognitions received by faculty and students						
Following Students received awards/recognitions in various events.						
year	Name of the student	Date	Event Name	Venue	Award	
2015-2016	NILL					
2014-2015	NILL					
2013-2014	NILL					
2012-2013	NILL					
2011-2012	NILL					

24 List of Eminent Academicians and scientists / visitors to the department				
Sl no	Department	topic	Resource Person with designation	Date of visit
01	Mechanical Engineering	Six days faculty development program on "product life cycle management and thermo acoustic refrigeration"	Dr. M Vijay Kumar Prof. JSSATE, B'lore Dr. B G Prashanth Prof. JSSATE, B'lore	11 th to 16 th august 2017
02	Mechanical Engineering	One day invited talk on "Reengineering-The Life Style"	Sri. Swamy Chidrupananda Saraswati	01.04.2017

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03	Mechanical Engineering	Invited talk on "Role of Teachers in society"	Sri. V V Venkataraman a Shastry	03.03.2017
04	Mechanical Engineering	One day seminar on "CAD/CAM/CAE/UG -NX)	CAD centre Ballari	17.03.2017
05	Mechanical Engineering	Awareness program on Energy conservation	Sri. Amar Srinivas Deputy Manager, IOCI, Ballari	13.02.2017
06	Mechanical Engineering	In house FDP on OBE	Dr. Suresh R Prof. BMSCE, Ballari.	16 to 19 Jan 2017
07	Mechanical Engineering	Three days workshop on Engine Technology	Sri Madusudan PS Co-Founder & Managing Director Rectangle Automotive Technologies LLP, Davangere	26 th to 28 th October 2016
08	Mechanical Engineering	Wi-Fi Networking & Automation by Selenium & Python	Sri. Ayyanna Gourikar B'lore	27 February 2016
09	Mechanical Engineering	Two Days FDP on "System Dynamics	Dr. Virupakshi Bagodi KLE, Hubli	18-19 February 2016
10	Mechanical Engineering	Two Days Students Workshop on "Industrial Applications of Hydraulics and Pneumatics" on 16/10/2015 and	Sri. Ashok kulkarni Hyderabad	16-17/10.2015

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		17/10/2015.		
11	Mechanical Engineering	3 days(s) FDP on Industrial Automation And Computer Aided Engineering	01. Sri, Anil Kumar M 02. Sri, Harsha H 03. Sri, Umar Farooq Hosamani Hunet Technology, B'lore	23-25/JULY/2015
12	Mechanical Engineering	Application of value engineering in enhancing quality of production	Sri Ramprasad Cherkur Consulting engineer Raytheon Inc	31 st march 2015
13	Mechanical Engineering	Industrial Applications of Hydraulics and Pneumatics	Ashok R Kulkarni Freelance trainer Bangalore	16-17 Oct 2015
14	Mechanical Engineering	"System Dynamics	Dr Virupakshi Bagodi Prof. GEC Haveri	18-19 feb 2016
15	Mechanical Engineering	Wi-Fi Networking & Automation by Selenium & Python	Sri Ayyana Gurikkar , Sri Anil Pradha	27 th feb 2016
16	Mechanical Engineering	Industrial Automation And Computer Aided Engineering	Hu net technologies Bangalore	23-25 th july 2015
17	Mechanical Engineering	Digital financing services	Sri manjunatha Reddy S Senior manager	14 th Sep 2015

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			federal bank	
18	Mechanical Engineering	Emerging trends in mechanical and production Engg	Dr H G hanum natha raju Prof. U V C E Banglore Dr B P MAHESH Prof JSSATE Banglore	08.03.2014
19	Mechanical Engineering	AWARENESS PROGRAM ON CAD/CAM/CAE/PLM	Anudeep Vaggar Cad Max Solutions Banglore	28.03.2014
20	Mechanical Engineering	FUNDAMENTAL aspects of machine design elements and alternative energy sources (bio-fuels)	Dr R suresh Prof. SIT Tumkur Dr G R Bharath Sai Kumar Prof. SIT Tumkur	28-sep-2013
21	Mechanical Engineering	National robotics champion ship		7 th and 8 th nov 2012
22	Mechanical Engineering	State level techno cultural fest DA ABHIYANTHA		5 TH and 6 th nov 2012
23	Mechanical Engineering	Project management	Sri abhikalyan project head cad center banglore	10.10.2012
24	Mechanical Engineering	AWARENESS PROGRAM ON CAD/CAM/CAE	Sri anantharam, sri Md Akhil , sri vb uppin sri balamurali Krishna	14.03.2012

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			Manager cad center Chennai	
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25	Seminars/Conferences/Workshops organized & the source of funding					
	a) National					
Sl no	Activities	Name of the Short Term Course / Training /FDP Conducted	Funding agency	Amount	Duration Month and year	No of Participants
01	FDP	Product life Cycle Management and Thermoacoustic Refrigeration	RYME C	Rs. 14,000	6 Days, 11-16 Aug 2017	All staff
02	FDP	Out Come Based Education	RYME C	Rs.21,645	4 days, 16-19 Jan 2017	All staff
03	Workshop	Industrial Automation And Computer Aided Engineering	RYME C Ballari	Rs. 28,280/-	3 days(s) 23- 25 July 2015	All staff and students.
04	Workshop	"Industrial Applications of Hydraulics and Pneumatics" on 16/10/2015 and 17/10/2015	RYME C Ballari	Rs.22,675/-	Two Days 16-17 October 2015	All staff and students.
05	FDP	"System Dynamics	RYME C Ballari	Rs.21,373/-	Two Days 18 -19 February	All staff and students.
06	Semina	Wi-Fi	RYME	Rs.	27	All staff

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	r	Networking & Automation by Selenium & Python	C Ballari	3,000/-	February 2016	and students
07	Seminar	Application of value engineering in enhancing quality of production	RYME C Ballari	Rs. 5,000/-	31 st march 2015	All staff and students
08	Seminar	Digital financing services	RYME C Ballari	Rs. 2,000/-	14 th Sep 2015	All staff and students
09	Seminar	Emerging trends in mechanical and production Engg	RYME C Ballari	Rs. 10,000/-	08.03.2014	All staff and students
10	Awareness Program	CAD/CAM/CAE/PLM	RYME C Ballari	Rs. 1,000/-	28.03.2014	All staff and students
11	Seminar	Fundamental aspects of machine design elements and alternative energy sources [bio-fuels	RYME C Ballari	Rs. 10,000/-	28-sep-2013	All staff and students
12	Seminar	National robotics champion ship	RYME C Ballari	Rs. 5,000/-	7 th and 8 th nov 2012	All staff and students
13	Seminar	State level techno cultural fest" DA ABHIYANTHA"	RYME C Ballari	Rs.	5 th and 6 th nov 2012	All staff and students

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14	Seminar	Project management	RYME C Ballari	Rs. 2,000/-	10.10.2012	All staff and students
b) International						
Sl no	Activities	Name of the Short Term Course / Training / FDP Conducted	Funding agency	Amount	Duration Month and year	No of Participants
NIL						

26 Student profile programme/ course wise:						
	Name of the Course	Academic year	Application Received	Selected Seats		Pass Percentage
				Male	Female	
	BE: (ME)	2016-2017	Admission through KEA/ COMED-K	51	00	Eligibility criterion is 40% for SC/ST and 45% for others
		2015-2016		55	01	
		2014-2015		60	00	
		2013-2014		60	00	
		2012-2013		59	01	
		2011-2012		60	00	
	M.Tech (TPE&PM)	2016-2017	Admission through KEA	12	00	Eligibility criterion is 40% for SC/ST and 45% for
		2015-2016		09	00	
		2014-2015		25	00	

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		2013-2014		21	06	others
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27	Diversity of Students				
	Name of the Course	year	% of students from the same state	% of students from other States	% of students from abroad
	Under graduate BE (ME)	2016-2017	95	5	NIL
		2015-2016	96.83	3.17	
		2014-2015	94.44	5.56	
		2013-2014	92.06	7.94	
		2012-2013	91.87	8.13	
		2011-2012	91.30	8.70	

28	How many students have cleared national and state competitive examinations such as NET, SLET, GATE, Civil services, Defense services, etc.?			
	State level	No of Students	National level	No of Students
	NET	NILL	GATE	NILL
	SLET	NILL	Civil services	NILL
			Defense services	NILL

29	Student progression					
	Student progression	Percentage against enrolled				
		2016-2017	2015-2016	2014-2015	2013-2014	2012-2013
	UG to PG	-	05	13	16	04

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09	National robotics champion ship	7 th and 8 th nov 2012	
10	State level techno cultural fest ^o DA ABHIYANTHA ^o	5 th and 6 th nov 2012	
11	Project Management	10 October 2012	Sri abhikalyan project head cad center banglore.
12	Awareness program on CAD/CAM/CAE	14 March 2012	Sri. Anantha Ram, Sri. Md. Akhil, Sri V.B. Uppin, Sri. Bala Muralikrishna, Managers, CADD Centre Chennai.

33 Teaching methods adopted to improve student learning

Teaching methods adopted to improve student learning

- PowerPoint Presentation
- Class room teaching
- Assignment
- Tutorial Class
- Remedial Class
- Seminars
- Content Beyond syllabus
- Question Bank
- The faculties use PowerPoint presentations to explain process or mechanisms or concepts like design, analysis, manufacturing many subjects are thought in hands on sessions in laboratory
- Traditional Classroom teaching is the intrinsic parts of student learning and always essential component.
- Assignment method is used for homework and practicing
- Tutorial Classes are internal part of weekly timetable and conducted as per schedule.
- Remedial classes are conducted for slow learners to help them improve their semester results.

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- Seminars are very good tool to inculcate qualities like stage courage, presentation style and others. It is part of curriculum; in addition class seminars are also conducted.
- Mini-projects are conducted as part of learning process for some of the practical sessions
- Few activities are conducted that are beyond the syllabus to improve student learning
- A comprehensive Question Bank is prepared to help students for better preparation for the examination

34	Participation in Institutional Social Responsibility (ISR) and Extension activities		
	Academic Year 2015-16		
	s/no	Date	Event
	1	Sept 2015	Conducted "TEACHERS DAY and ENGINEERS DAY" to enlighten the role of Teacher and Engineer to build a strong Nation
	2	Nov 1 2015	Conducted "Kannada Rajyostva" to inculcate the spirit of loving their own land ,and to bring harmony and unity ,among younger generation
	3	2015	Participated in "PERSONALITY DEVELOPMENT SEMINAR" to know the essence of leading Happy life
	4	Oct 2015	"Save Life"--Blood Donation camp to give blood to the needy, to create awareness about humanity, value of life.
	Academic Year 2014-15		
	s/no	Date	Event
	1	2014	Participated in "swaccha Bharath " campaign in the college campus, to highlight the concept "Cleanliness is next Godliness
	Academic Year 2013-14		

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sno	Date	Event
1	21-09-2013	NSS UNIT RYMEC & VIMS, Blood bank jointly organized VBD-camp, around 259 People (students and staff) donated the blood. This is new record in Bellary district.
Academic Year 2012-13		
Sino	Date	Event
Nil		
Academic Year 2011-12		
1	5-11-2011	NSS UNIT RYMEC & District task force committee of Bellary jointly organized VBD-camp, around 251 People (students and staff) donated the blood. This is new record in Bellary district.

35	SWOC analysis of the department and Future plans
Strengths	
<ol style="list-style-type: none">1. Very good academic student results including university Ranks/Toppers2. Highly qualified and experienced faculties3. Young and enthusiastic faculties4. Quest for higher learning by the faculties (Pursuing Ph.D)5. Willingness to undergo appraisal by the students/stakeholders6. Appropriate student/faculty ratio7. Sufficient built up area and scope for expansion8. Audio visual facilities9. Adequate standby power supply10. Two faculty members contributed to authoring four text books for the course	
Weakness	
<ol style="list-style-type: none">1. Low input quality2. Less parent turn out for interaction3. Less industry linkages4. Less R&D activities	

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Opportunity	
	<ol style="list-style-type: none">1. Good Reputation of the institute in region2. Bellary identified as a steel district3. Only IPE dept in entire North Karnataka4. Considered equivalent as Mechanical Engineering Dept by VTU5. Probable high demand for production sector because of Make in India concept
Challenges	
	<ol style="list-style-type: none">1. Trend of less number of admissions for IPE branch over the years2. Closure of IPE departments in many colleges in recent years3. Low/average input quality4. Less campus recruitments from the companies (Not preferring IPE students)5. Less number of Govt./Private sector job opportunities compared to other Engineering branches

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DEPARTMENT OF CIVIL ENGINEERING

Evaluative Report of the department

1	Name of the department	Civil Engineering Department
2	Year of Establishment	1980
3	Names of Programmes / Courses offered (UG, PG, M.Phil., Ph.D., Integrated Masters; Integrated Ph.D., etc.)	UG (Civil Engineering) PG (M.Tech. Structural Engineering) PhD.
4	Names of Interdisciplinary courses and the departments/ units involved	<ul style="list-style-type: none">• DEPARTMENT OF MATHAMITICS(MATHS FOR 1ST AND 2ND YEAR)• DEPARTMENT OF PHYSICS(PHYSICS FOR 1ST YEAR)• DEPARTMENT OF CHEMESTRY(CHEMESTRY FOR 1ST YEAR)• DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGG(BASIC ELECTRICAL FOR 1ST YEAR)• DEPARTMENT OF MECHANICAL ENGG(EME,CADE AND WORK SHOP FOR 1ST YEAR)• DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGG(BASIC ELECTRONICS FOR 1ST YEAR)• DEPARTMENT OF COMPUTER SCIENCE (CIP AND PCD FOR 1ST YEAR)
5	Annual/ semester/choice based credit system (programme wise)	2010 – 2014 BATCH SEMESTER WISE 2015- BATCH CBCS SYSTEM
6	Participation of the department in the courses offered by other departments	ECE
7	Courses in collaboration with other universities, industries, foreign institutions, etc.	V.T.U
8	Details of courses/programmes discontinued (if any) with reasons	
9	Number of Teaching posts	33

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	Sanctioned	Filled
Professors	3	3
Associate Professors	6	3
Asst. Professors	21	25

ID	Faculty profile with name, qualification, designation, specialization, (D.Sc./D.Litt./Ph.D./M. Phil. etc.,)					
	Name	Qualification	Designation	Specialization	No. of Years of Experience	No. of Ph.D. Students guided for the last 4 years
	Dr.H.M.MALLI KARUUNA	Ph.D, M.Tech, B.E	LECTURER, ASST PROFF, PROFESSOR	CIVIL/STRUCTURES/ GEO TECHNOLOGY	21	1
	Dr.H.M.SOMAS ENHARAIAH	Ph.D, M.Tech, B.E	LECTURER, ASST PROFF, PROFESSOR	STRUCTURAL ENGINEERING	29	5
	M.S.SHOBHA	M.Tech, B.E	LECTURER, ASST PROFF, PROFESSOR	CONCRETE TECHNOLOGY	18	
	T.J.PATEL	M.Tech, B.E	LECTURER, ASST PROFF, PROFESSOR	ENVIRONMENTAL ENGG	31	
	H.M.NAGABH USHAN	M.Sc,B.Sc	LECTURER, ASST PROFF, PROFESSOR	GEOLOGY	37	
	M.R.VIJAYAKU MAR	M.Tech, B.E	LECTURER, ASST PROFF, ASSOCIATE PROFF	CONCRETE TECHNOLOGY	27	
	PUSHPALATHA R GADAG	M.Tech, B.E	LECTURER, ASST PROFESSOR	INDUSTRIAL STRUCTURES	10	
	ADANA GOUDA	M.Tech, B.E	LECTURER, ASST	STRUCTURAL ENGINEERING	7	
	BASAVA PRABHU M.S	M.Tech, B.E	LECTURER, ASST	STRUCTURAL ENGINEERING	6	
	M.I.BASAVALI NGANAGOUDA	M.Tech, B.E	LECTURER, ASST	STRUCTURAL ENGINEERING	4	

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J.M. SRINIVASA	M.E, B.E	LECTURER, ASST	CONSTRUCTION TECHNOLOGY	4	
BASAVALINGA PPA	M.Tech, B.E	LECTURER, ASST	STRUCTURAL ENGINEERING	4	
SACHIN PATIL	M.Tech, B.E	LECTURER, ASST	STRUCTURAL ENGINEERING	4	
VINAY KUMAR M.R	M.Tech, B.E	LECTURER, ASST	STRUCTURAL ENGINEERING	2	
ANIL KUMAR S. KATAGERI	M.Tech, B.E	LECTURER, ASST	STRUCTURAL ENGINEERING	2	
PAVAN KUMAR M.	M.Tech, B.E	LECTURER, ASST	STRUCTURAL ENGINEERING	5	
T.NAGA ANUSHA	M.Tech, B.E	LECTURER, ASST	STRUCTURAL ENGINEERING	2	
SHADAKSHARI M.	M.Tech, B.E	ASST PROFESSOR	STRUCTURAL ENGINEERING	1.5	
ZAMEER K.	M.Tech, B.E	ASST PROFESSOR	STRUCTURAL ENGINEERING	1.5	
MAHANTHES WARI	M.Tech, B.E	ASST PROFESSOR	STRUCTURAL ENGINEERING	1.5	
VINAYA SHEKHAR T.E.	M.Tech, B.E	ASST PROFESSOR	STRUCTURAL ENGINEERING	1.5	
ASHWINI H.	M.Tech, B.E	ASST PROFESSOR	ENVIRONMENTAL ENGG	1	
JAGADEESH V. M.	M.Tech, B.E	ASST PROFESSOR	CONSTRUCTION MANAGEMENT	1	
VEERESHIAH H.M.	M.Tech, B.E	ASST PROFESSOR	CADD STRUCTURES	0.5	
RAJENDRA K.M.	M.Tech, B.E	ASST PROFESSOR	STRUCTURAL ENGINEERING	0.5	
PRASAD	M.Tech, B.E	ASST PROFESSOR	HIGHWAY ENGG	0.5	
SHRAVAN D. KONNUR	M.Tech, B.E	ASST PROFESSOR			
B.NAGARAJ	M.Tech, B.E	ASST PROFESSOR			
MONICA G. BHUTADA	M.Tech, B.E	ASST PROFESSOR			
DEEKSHA T. BALLUR	M.Tech, B.E	ASST PROFESSOR			
SAGAR	M.Tech, B.E	ASST PROFESSOR			
BASAVARAJU R.	B.E	LECTURER			
MUBARAK MOHAMMADI	B.E	LECTURER			

11	List of senior visiting faculty		
Sl. No	Name of Visiting Faculty	Qualification	Experience

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12	Percentage of lectures delivered and practical classes handled(programme wise)by temporary faculty

13	Student-Teacher Ratio (programme wise)				
Student Teacher ratio Programme wise has been mentioned in the table below:					
Sl no	Programme	Year	No of students	No of teachers	Student: teacher ratio
1	UNDER GRADUATE BE: (Civil)	2016-2017	420	27	15.56
2		2015-2016	435	23	18.91
3		2014-2015	424	19	22.84
4		2013-2014			
5		2012-2013			
Sl no	Programme	Year	No of students	No of teachers	Student: teacher ratio
1	POST GRADUATE MTECH: (Structural Engg. I)	2016-2017	35	3	11.67
2		2015-2016	35	3	11.67
3		2014-2015	35	3	11.67
4		2013-2014			
5		2012-2013			

14	
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14	Number of academic support staff (technical) and administrative staff sanctioned and filled												
The below given table gives the cadre wise structure of academic support:													
	<table><tr><th></th><th>Sanctioned</th><th>Filled</th></tr><tr><td>Administrative staff</td><td>NIL</td><td>NIL</td></tr><tr><td>Lab instructor</td><td></td><td>4</td></tr><tr><td>Assistants</td><td></td><td>5</td></tr></table>		Sanctioned	Filled	Administrative staff	NIL	NIL	Lab instructor		4	Assistants		5
	Sanctioned	Filled											
Administrative staff	NIL	NIL											
Lab instructor		4											
Assistants		5											

15	Qualifications of teaching faculty with DSc/ D.Lit/ Ph.D/ MPhil/ PG.	
Sl no	Faculty Name	Qualification
1	Dr.H.M.MALLIKARJUNA	Ph.D, M.Tech, B.E
2	Dr.H.M.SOMASEKHARAIH	Ph.D, M.Tech, B.E
3	M.S.SHORHA	Ph.D, M.Tech, B.E
4	T.H.PATEL	M.Tech, B.E
5	H.M.NAGABHUSHAN	M.Sc,B.Sc
6	M.R.VUAYAKUMAR	M.Tech, B.E
7	PUSHPALATHA R GADAG	M.Tech, B.E
8	ADANA GOUDA	M.Tech, B.E
9	BASAVA PRABHU M.S	M.Tech, B.E

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10	M.I.BASAVALINGANA GOWDA	M.Tech, B.E
11	BASAVALINGAPPA	M.Tech, B.E
12	J.N.SRISHAILA	M.E, B.E
13	SACHIN PATIL	M.Tech, B.E
14	VINAY KUMAR M.R	M.Tech, B.E
15	ANILKUMAR S.KATAGERI	M.Tech, B.E
16	PAVAN KUMAR M	M.Tech, B.E
17	T.NAGA ANUSHA	M.Tech, B.E
18	SHADAKSHARI M	M.Tech, B.E
19	ZAMEER K	M.Tech, B.E
20	MAHANTHESWARI	M.Tech, B.E
21	VINAYA SHEKHAR T.E	M.Tech, B.E
22	ASHWINI R	M.Tech, B.E
23	JAGADEESH V.M	M.Tech, B.E
24	VEERESHIAH H.M	M.Tech, B.E
25	RAJENDRA K.M	M.Tech, B.E
26	PRASAD	M.Tech, B.E
27	BASAVARAJ R	B.E
28	MUBARAK MOHAMMADIA	B.E
29	SHRAVAN D.KONNUR	M.Tech, B.E
30	B.NAGARAJ	M.Tech, B.E
31	MONICA G.BHUTADA	M.Tech, B.E
32	DEEKSHA T.BALLUR	M.Tech, B.E
33	SAGARI	M.Tech, B.E

16	Number of faculty with ongoing projects from a) National b) International funding agencies and grants received					
Sr No	Title of the project	National / International	Funding agency	Principal investigator/ co-investigator	Duration of the project	Amount sanctioned
1						

17	Departmental projects funded by DST - FIST, UGC, DBT, ICSEIR, etc. and total grants received		
Srno	Title of the project	Funding agency	Amount sanctioned

18	Research Centre /facility recognized by the University
	The Department of Civil and Engineering is recognized as VTU RESEARCH CENTRE in the year 2014. Since then the research facility is available for research scholars to carry out research in their specific area and publish papers in reputed refereed journals and International conferences.

19	Publications:
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* Publication per faculty							
	Sl n o	Faculty name				No of Publicati ons	
	1	Dr .H.M. Mallikarjuna				01	
	2	Dr.H.M.Somasbekharaiah				12	
	3	H.M. Nagabhushan				05	
	4	M.S.Shobha				01	
	5	Adana Gouda				06	
	6	Basava Prabhu				01	
	7	Sachin patil				03	
	8	Vinay Kumar M R				01	
	9	Anil Kumar S Katageri				02	
	10	Basavalingappa				02	
	11	J M Srishaila				01	
* Number of papers published in peer reviewed Journals (national /international) by faculty and students							
Total No. of papers published in International Journal :							
Total No. of papers published in National Journal :							
	Sl no	Title	Author	Name of the Journal	ISSN/IS BN	YEA R	VOLUM E
	1	Re-examination of Undrained Strength at Atterberg Limits Water Contents	Dr .H.M. Mallikarjuna	Internatio nal Journal	ISSN 0960- 3182	2014	
	2	An Experimental Study on Properties of the Concrete for Replacem	Dr.H.M.Somashekh araiah	Internatio nal Journal	ISSN 0976- 6308 (Print)ISS N 0976- 6316	2012	

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		ent of Sand by Stone Waste for Different Types of Cement with Chemical Admixture					
	3	A study of soil erosion and its impact on floods and sedimentation	H.M. Nagabhushan	International journal of research in engg & Int.	IP- ISSN:2321-7308 ISSN:2319-1163 ISEB 978-1-63041-8106 NCRIET		
	4	Inter basin water trounces in India -A solution to hydrologic al extremlion					
	5	Thermal studies on manufactu re ores of sandur,kar nataka		Internatio nal journal Engg of research and Develop ment	E ISSN:2276-067 P-ISSN 2278-800X Aug 2014	2010	
	6	Our Earth Our Future - Just Save It		State Level 2010			
	7	" Impact Of Pollution And Bringing Of		National Level Conferen ce 2012		2012	

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		Awareness To The Present And Next Generation				
	8	Linking of Indian rivers; A boon or bane		National level seminar 2013-14		2014
	9	Reservoir Sedimentation And Controlling Measures		National Conference (ACEID-2014)	ISBN 978-93-82570-19-6	2014
	10	Advanced Research and Development for shaping the future of Technical Education (SBT6-107)		ISTE, Annual Convention 2014		2014
	11	Interlinking of Rivers (Inter & Intrabasin Water Transfer – A Unique Problem for dual problems in India)		National Conference 2014		2014
	12	Participated and presented a paper titled Managem		KSTA Conference 2015		2015

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		ent of E waste in India and its disposal					
	13	Mechanical Properties of latex modified high performance concrete	M.S.Shobha	International Journal	ISSN:2320-334X		
	14	An Experimental Study on Properties of the Concrete for Replacement of Sand by Stone Waste for Different Types of Cement with Chemical Admixture	Adana Gouda	International Journal	ISSN 0976-6308 (Print)ISSN 0976-6316		
	15	Mr.J.M.Sr ishuila	Effect of mineral admixtures on kinetic property and compressive strength of self-compacting concrete		ICOCE - 2017		

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16	Dr.H.M.S omasekhar aiah Mr.Basava prabhu M S Mr.Basava lingappa	An Experimental Investigation On Strength Properties Of Concrete Replacing Natural Sand By M-Sand Using Silica Fume As An Admixture	E-ISSN: 2395 - 0056, P-ISSN: 2395- 0072, Volume: 03 Issue: 08 / Aug- 2016	IRJET		
17	Bearing capacity of model footing resting on surface treated coir mats and coir fiber reinforced sand	Sachin patil	Elsevier publicatio ns Internatio nal Journal	ISBN -978-93- 5107- 268-3		
18	Seismic Performanc e Study of RCC Buildings having Plan Irregularity Using Pushover Analysis Seismic Performanc e Study of RCC Buildings having Vertical Geometrica l Irregularity Using Pushover Analysis	Anil,Kumar,S.Katageri	Internation al Journal	Vol 3, Issue 11, in Jan 2016 USRD	2016	
	An Experiment al and Analytical	Vinaykumar M R	Internation al Journal	Vol 4, Issue 2, May 2016	2016	

		Study of cold-formed Steel Structural Members With Perforations Subjected to Compression Loading					
		Number of publications listed in International Database (For Eg. Web of Science, Scopus, Humanities International Complete, Dare Database - International Social Sciences Directory, EBSCO host, etc.)					
		• Monographs					
		Provide list					
		• Chapter in Books					
		Provide list					
		• Books Edited					
		Provide list					
		• Books with ISBN/ISSN numbers with details of publishers					
		Provide list					
		• Citation Index					
		Provide list					
		• SNIP					
		Provide list					
		• SJR					
		Provide list					
		• Impact factor					
		Provide list					
		• h-index					
		Provide list					

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SI no	Consultancy work	year	Amount generated
1	Material testing & Third party Inspection	2015-2016	Amount >= 2 Lacs and < 4 lacs(Rs 2,64,000)
2	Material testing & Third party Inspection	2014-2015	Amount >= 2 Lacs and < 4 lacs(Rs 2,00,130)
3	Material testing & Third party Inspection	2013-2014	Amount >= 2 Lacs and < 4 lacs(Rs 2,91,980)
4	Material testing & Third party Inspection	2012-2013	Amount > 10 Lacs(Rs 10,31,903)
5	Material testing & Third party Inspection	2011-2012	Amount > 10 Lacs(Rs 12,63,150)

21	Faculty as members in		
a)	National committees		
	SI no	Faculty name	Committee member
	1		
	2		
	3		
b)	SI no	Faculty name	Committee member
	1		
	2		
	3		

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22	Student projects				
	<p>Students are encouraged to carry out research oriented projects which are of social relevance involving state-of-art and inclusive technology. Students get an opportunity to use latest tools and technical know-how in the process of executing the project.</p> <ul style="list-style-type: none"> • Students are provided the required infrastructure to do their projects (in-house). • Risks are discussed at each project progress review meeting. • The Department keeps track of the progress of the project in terms of completion, time and costs. • To enforce team work, students are asked to form a group of 3 to 4 members to carry out the project work. This enables them to build team spirit and helps in co-coordinating various activities. <p>a) Percentage of students who have done in-house projects including inter departmental/programme</p> <p>b) Percentage of students placed for projects in organizations outside the institution i.e.in Research laboratories/Industry/ other agencies</p>				
*	Sl no	Programme	Year	% of projects done inside the Institute (a)	% of projects done outside Institute (b)
	1	Under Graduate BE (Civil)	2016-2017	100	
	2		2015-2016	100	
	3		2014-2015	100	
	4		2013-2014	100	
	5		2012-2013	100	
	1	Post Graduate M.Tech(Structural Engineering)	2016-2017	100	
	2		2015-2016	100	
	3		2014-2015	100	
	4		2013-2014	100	
	5		2012-2013	---	

23	Awards / Recognitions received by faculty and students					
	Following Students received awards/recognitions in various events.					
	year	Name of the student	Date	Event Name	Venue	Award
	2015-2016	Dushyanth		National Level Student's Technical Symposium Secured - First place		

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				in auto-CADD".		
2014-2015		Vishwa		National Level Techno Cultural fest Secured - First place in "Movie Making".		
2013-2014		Sharath K		National Level Techno Cultural fest Secured - First place in "Movie Making".		
2012-2013		VidyaPatil&Dushyanth		National Level Student's Technical Symposium Secured - Second place in "Surveying"		
2011-2012		Ravi Babu		National Level Student's Technical Symposium Secured Third Place in Technical Quiz		

24	List of eminent academicians and scientists / visitors to the department					
	Sl no	department	topic	Resource Person with designation	Date of visit	
	01	CIVIL	Two Days Workshop On "STADD Pro"	Mr.Dewanash Thakur, Capricot(Pvt.Ltd, New Delhi	07/02/2015 & 08/02/2015	
	02	CIVIL	" Role of admixtures in concrete"	Mr. Jashwanth, Fosree,Bangalore.	18/03/2014	

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		03	CIVIL	"Mud stabilized blocks"	Dr.H.B.Nagaraj, Professor, BMSCE Bangalore	15/09/2014
		04	CIVIL	"Road Construction"	Mr.Shekar, L&T, Bangalore	03/11/2015

25 Seminars/ Conferences/Workshops organized & the source of funding							
a) National							
	Sl no	Activities	Name of the Short Term Course / Training /FDP Conducted	Funding agency	Amount	Duration Month and year	No of Participants
b) International							
	Sl no	Activities	Name of the Short Term Course / Training /FDP Conducted	Funding agency	Amount	Duration Month and year	No of Participants

26	Student profile programme/course wise					
	Name of the Course	Academic year	Application Received	Selected Seats		Pass Percentage
				Male	Female	
	BE: (Civil)	2016-2017	Admission through KEA/ COMED-K	87	35	Eligibility criterion is 40% for SC/ST and 45% for others
		2015-2016		95	27	
		2014-2015		120	44	
		2013-2014		161	35	
		2012-2013		118	43	
	M.Tech (Structural Engineering)	2016-2017	Admission through KEA	13	4	Eligibility criterion is 40% for SC/ST and 45% for others
		2015-2016		13	5	
		2014-2015		15	2	
		2013-2014		13	5	

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27	Diversity of Students				
	Name of the Course	year	% of students from the same state	% of students from other States	% of students from abroad
	Under graduate	2016-2017	100	NIL	NIL
1		2015-2016	100	NIL	
2	BE (Civil)	2014-2015	100	NIL	
3		2013-2014	100	NIL	
4		2012-2013	100	NIL	

28	How many students have cleared national and state competitive examinations such as NET, SLET, GATE, Civil services, Defense services, etc.?			
	State level	No of Students	National level	No of Students
	NET	NIL	GATE	3
	SLET	NIL	Civil services	NIL
			Defense services	NIL

29	Student progression					
	Student progression	Percentage against enrolled				
		2016-2017	2015-2016	2014-2015	2012-2013	2011-2012
	UG to PG		18	31	25	26
	PG to MPhil	NIL	NIL	NIL	NIL	NIL
	MPhil to Ph.D	NIL	NIL	NIL	NIL	NIL
	Ph.D to Post-Doctoral	NIL	NIL	NIL	NIL	NIL
Employed						
	Campus selection	NIL	45	21	10	NIL
	Other than campus recruitment	NIL	NIL	NIL	NIL	NIL
	Entrepreneurship/Self-employment	NIL	NIL	04	01	NIL

30	Details of Infrastructural facilities	
	a) Library facilities	
	Total no of Volumes	87010
	Journal	90
	Project Report	Yes
	News Letters	Yes
	Syllabus	Notes, Question Papers, Manual Solutions

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		etc
Question Bank		Notes, Question Papers, Manual Solutions etc
Digital Library		Notes, Question Papers, Manual Solutions etc
E-journal		VTU Consortium
b) Internet facilities for Staff & Students		
	<ul style="list-style-type: none"> • Available bandwidth - 10Mbps • Access speed - 100 Mbps Availability - staff rooms are equipped with computer connected with internet and available in the CADD lab.	
	c) Class rooms with ICT facility	
	1. Classrooms - 6 2. seminar hall - 1 3. Dell tabs-2 4. Projectors - 5 5. CC cameras - every classroom Black board and White board - all class rooms	
	d) Laboratories	
	CADD Lab, GT Lab, BMTC Lab, CHMT Lab, Structural Lab, AEG lab and Surveying Lab	

31	Number of students receiving financial assistance from college, university, government or other agencies					
	YEAR	Central Government Scholarship for SC/ST (Karnataka)	Fee Concession for OBC students (Karnataka)	Ex-Defence children scholarship	Municipal Scholar	others
	2016-2017	10		NIL	NIL	NIL
	2015-2016	09		NIL	NIL	NIL
	2014-2015	19		NIL	NIL	NIL
	2013-2014	18		NIL	NIL	NIL
	2012-2013	24		NIL	NIL	NIL
	2011-2012	24		NIL	NIL	NIL

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32. Details on student enrichment programmes (special lectures / workshops / seminar) with external experts				
sno	Topic	Date	Resource Person with designation	
1	2-Day Workshop on "Indian Concrete Institute (ICI) Student Chapter"	8/08/2016 & 09/08/2016	INDIAN CONCRETE INSTITUTION	
2	Two-day Workshop on "Solid Waste & Waste Water Management in Urban & Rural India-Present Scenario & Challenges"	26/08/2016 & 27/08/2016		
3	Two days seminar on "Entrepreneur Development Skills"	04/10/2016 & 05/10/2016		
4	Two Days Workshop On "STADD Pro"	07/02/2015 & 08/02/2015	Mr.Dewanash Thakur, Capricot Pvt.Ltd, New Delhi	
5	"Role of admixtures in concrete"	18/03/2014	Mr. Jashwanth, Fourec, Bangalore.	
6	"Mud stabilized blocks"	15/09/2014	Dr.H.B.Nagatuj, Professor, BMSCE Bangalore.	
7	"Road Construction"	03/11/2015	Mr.Shekar, L&T, Bangalore	

33. Teaching methods adopted to improve student learning	
Teaching methods adopted to improve student learning <ul style="list-style-type: none"> • PowerPoint Presentation • Class room teaching • Assignment • Tutorial Class • Remedial Class • Seminars 	

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- Mini Projects
 - Content Beyond syllabus
 - MOOC courses
 - Question Bank
 - Pre-Final Examination
-
- The faculties use PowerPoint presentations to better understanding the subjecting to the student.
 - Traditional Classroom teaching is the intrinsic parts of student learning and always essential component.
 - Assignment method is used for homework and practicing
 - Tutorial Classes are internal part of weekly timetable and conducted as per schedule.
 - Remedial classes are conducted for slow learners to help them improve their semester results.
 - Seminars are very good tool to inculcate qualities like stage courage, presentation style and others. It is part of curriculum; in addition class seminars are also conducted.
 - Mini-projects are conducted as part of learning process for some of the practical sessions.
 - Few activities are conducted that are beyond the syllabus to improve student learning.
 - A comprehensive Question Bank is prepared to help students for better preparation for the examination.
 - Lastly, A pre-final examination is conducted for students to make them ready for semester examination.

34	Participation in Institutional Social Responsibility (ISR) and Extension activities		
Academic Year 2015-16			
	sno	Date	Event
Academic Year 2014-15			

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	s/no	Date	Event
Academic Year 2013-14			
	s/no	Date	Event
Academic Year 2012-13			
	s/no	Date	Event
Academic Year 2011-12			

35	SWOC analysis of the department and Future plans
	Strengths
	<ol style="list-style-type: none"> 1. State of art infrastructure to support teaching and learning process. 2. Blended learning in class room teaching 3. Qualified faculty, talented and dedicated, knowledgeable and cooperative faculty, great collaboration and good communication among faculty. 4. Numerous research/independent study opportunities for students 5. Strong academic leadership and good support to faculty to pursue doctoral degree. 6. Cohesive department with cooperative disposition for all staff members. 7. Maintains good admission record since its inception. 8. Graduates of the department are leaders in academia, industry and government.
	Weakness
	<ol style="list-style-type: none"> 1. Very few staff members with Ph. D Qualification. 2. Insufficient cadre ration as mandated by regulation authorities. 3. Academic ranking of faculty not maintained in the department. 4. Inactive in research funding. Develop more national/state level grant proposals and increase / establish funds available for Research Activities. 5. Poor Collaboration among faculty in research activities and its outcomes. 6. Very poor record of outreach academic activities. 7. Industry-Institute collaboration needs to be strengthened. 8. Limited program palpability for faculty and student to grow beyond class room in social responsibility.
	Opportunity
	<ol style="list-style-type: none"> 1. Develop inter disciplinary research in areas of Civil Engineering.

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	<ol style="list-style-type: none">2. Opportunities to find research grants from industry and government agencies.3. Strengthen program to improve conversion ratio in off and on campus placement drives.4. Maintaining and utilizing better contact to alumni of the department.5. Strengthen the program to attract meritorious intake to program.6. Extend continuing education to stake holders.7. Graduates of program shall embrace emerging technical trends to find successful career in industry or academia.8. Set up industry sponsored lab or research cell to promote research.
	Threats/Challenges
	<ol style="list-style-type: none">1. Gradual decline of meritorious student admission to the program.2. Continuous decline of committed faculty joining the engineering education.3. Continuous encroachment of other departments in civil engineering department mission.4. Limited research funding from local industries or companies.5. Insufficient financial support from state or national agencies for higher education research.6. High overheads and establishment payments makes difficult for self financing institutions to sustain to provide quality education to poor meritorious students.7. Overall financial weakness may threaten the hiring of new experienced faculty at the desired level.8. It is hard to balance teaching quality with research.

Prof. & H.O.D
Dr. H. M. Mallikarjuna

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DEPARTMENT OF ELECTRONICS AND COMMUNICATION

ENGINEERING

Evaluative Report of the department

1	Name of the department	Electronics and Communication Engineering
2	Year of Establishment	1983
3	Names of Programmes / Courses offered (UG, PG, M.Phil., Ph.D., Integrated Masters, Integrated Ph.D., etc.)	UG-Bachelor of Engineering in Electronics & Communication Engineering PG-Master of Technology in Digital Communication and Networking Ph.D-Research Centre in E&CE
4	Names of Interdisciplinary courses and the departments/units involved	Department of Mathematics- Engineering Mathematics-I Engineering Mathematics-II Engineering Mathematics-III Engineering Mathematics-IV Department of Civil Engineering- Environmental Studies
5	Annual/ semester/choice based credit system (programme wise)	UG-1 st to 6 th semester(2015-16)- Choice Based Credit System UG-7 th to 8 th semester(2010-11)- Semester Scheme PG-1 st to 4 th semester(2014-15)- Semester Scheme PG-1 st to 2 nd semester(2016-17)- Choice Based Credit System
6	Participation of the department in the courses offered by other departments	VLSI(10ET71/10ET71) Embedded Systems and RTOS(10ET761) DIP(10ET74)
7	Courses in collaboration with other universities, industries, foreign institutions, etc.	NA
8	Details of courses/programme discontinued (if any) with reasons	NA
9	Number of Teaching Posts	31

	Sanctioned	Filled
Professors	3	3
Associate Professors	6	5
Asst. Professors	19	23

Faculty profile with name, qualification, designation, specialization, (D.Sc/D.Litt.

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10 /Ph.D. / M. Phil. Etc.,)						
SLN o	Name	Qualificati on	Designati on	Specializ ation	No. of Years of Experie nce	No. of Ph.D. Students guided for the last 4 years
1	Dr.Savita Sonoli	M.Tech,Ph. D	Professor	ES&IP	23	04 guiding
2	Dr.Prahlavathi.S	MS,M.Tech Ph.D	Professor and Head	ECS,CNE	22	
3	Dr.Manjunath Achari	M.Tech,Ph. D	Professor	DS&CS	25	
4	Mr. Dalal Shivakumar	ME	Associate Professor	ED	20	
5	Mrs. Rakhee Patil	ME(Ph.D)	Associate Professor	EM&I	20	
6	Mrs.Ashabharathi.S	M.Tech(Ph. D)	Associate Professor	DEAC	17	
7	Mr.Surendranath H	M.Tech(Ph. D)	Associate Professor	BM)	20	
8	Mr.Khaja Moinuddin	M.Tech	Associate Professor	I&CS	13	
9	Mrs.Suvarna S Patil	M.Tech(Ph. D)	Assistant Professor	CNE	14	
10	Mrs.Girijavani G	M.Tech(Ph. D)	Assistant Professor	DE	14	
11	Mrs.Chinna V Gowdar	M.Tech(Ph. D)	Assistant Professor	E&CE	9	
12	Mr.K.Phanindra Reddy	M.Tech(Ph. D)	Assistant Professor	CNE	8	
13	Mr. Shridhar S Bilagi	M.Tech	Assistant Professor	DE	8	
14	Mr.Lokesh K.S	M.Tech	Assistant Professor	VLSI&ES D	10	
15	Mrs.Anitha A	M.Tech	Assistant Professor	DE	6	
16	Mr.Vinay A	M.Tech	Assistant Professor	CNE	6	
17	Mr.Sharana Gouda V.Patil	M.Tech	Assistant Professor	DE	6	
18	Mr.Md.Zakirulla	M.Tech	Assistant Professor	DE&CS	6	
19	Mr.Srikanth.N	M.Tech	Assistant Professor	DE	7	
20	Mrs. Gayathri	M.Tech	Assistant Professor	DE	7	
21	Mr.Veera Reddy	M.Tech	Assistant	DE	5	

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			Professor			
22	Mr.Sudharshan B	M.Tech	Assistant Professor	DE&C	5	
23	Mr.PrashanthKeni	M.Tech(Ph. D)	Assistant Professor	DE	5	
24	Mr.SharadaBasavaraj B	M.Tech	Assistant Professor	IE	5	
25	Mrs.Vani.H	M.Tech	Assistant Professor	VLSI&ES D	3	
26	Mrs.Rohini.H.M	M.Tech	Assistant Professor	VLSI&ES D	4	
27	Mr.Santhosh Mugali	M.Tech	Assistant Professor	SP	4	
28	Mr.Manjunath K.M	M.Tech(Ph. D)	Assistant Professor	VLSI&ES D	4	
29	Ms.Manasa.K.Chigat ori	M.Tech	Assistant Professor	DCN	2	
30	Mr.Nagaraj Gowda H	M.Tech	Assistant Professor	VLSI	6	
31	Ms.Ashwini	M.Tech	Assistant Professor	DCN	1	

11	List of senior visiting faculty		
Sl no	Name of Visiting Faculty	Qualification	Experience
	NA		

12	Percentage of lectures delivered and practical classes handled (programme wise)by temporary faculty		
Sl no	Name of Visiting Faculty	Qualification	Experience
	NA		

13	Student -Teacher Ratio (programme wise)				
Student Teacher ratio Programme wise has been mentioned in the table below.					
Sl no.	Programme	Year	No of students	No of teachers	Student: teacher ratio
1	UNDER GRADUATE BE (E&CE)	2016-2017	432	32	14:1
		2015-2016	432	29	15:1
2		2014-2015	432	24	18:1
3		2013-2014	432	24	18:1
4		2012-2013	432	26	17:1
5		2011-2012	432	28	15:1
Sl no	Programme	Year	No of students	No of teachers	Student: teacher ratio

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1	POST GRADUATE MTECH: (DCN)	2016-2017	4	3	1:1
		2015-2016	8	3	3:1
2		2014-2015	11	3	4:1
3		2013-2014	13	3	5:1
4		2012-2013	NA		
5		2011-2012			

14	Number of academic support staff (technical) and administrative staff; sanctioned and filled (The below given table gives the cadre wise structure of academic support)		
		Sanctioned	Filled
	Administrative staff	—	—
	Lab instructor	5	4
	Assistants	5	4

15	Qualifications of teaching faculty with DSc/ D.Lit/ Ph.D/ MPhil/ PG.	
Sr.no	Faculty Name	Qualification
1	Dr. Savita Sonoli	M.Tech, Ph.D
2	Dr. Prabhavathi.S	M.Tech, Ph.D
3	Dr. Manjunath Achari	M.Tech,Ph.D
4	Mr. Dalal/Shivakumar	ME
5	Mrs. Rakhee Patil	ME(Ph.D)
6	Mrs. Ashubharathi.S	M.Tech(Ph.D)
7	Mr. Surendranath H	M.Tech(Ph.D)
8	Mr. KhajaMoinuddin	M.Tech
9	Mrs. Suvarna Patil	M.Tech(Ph.D)
10	Mrs.Girijavani G	M.Tech(Ph.D)
11	Mrs. Chinna V Gowdar	M.Tech(Ph.D)
12	Mr.K. Phanindra Reddy	M.Tech(Ph.D)
13	Mr. Shridhar S Bilagi	M.Tech
14	Mr.Lokesh K.S	M.Tech
15	Mrs.Anita A	M.Tech
16	Mr.Vinay A.	M.Tech
17	Mr.Sharada Gouda V.Patil	M.Tech
18	Mr.Md.Zakirulla	M.Tech
19	Mr.Srikanth.N	M.Tech
20	Mrs.Gayathri	M.Tech
21	Mr.Veera Reddy	M.Tech
22	Mr.Sudharshan B	M.Tech
23	Mr.PrashanthKeni	M.Tech(Ph.D)
24	Mr.Sharada Basavaraj B.	M.Tech
25	Mrs.Vani.H	M.Tech
26	Mrs.Rohini.H.M	M.Tech
27	Mr.Santhosh Migali	M.Tech
28	Mr.Manjunath K.M	M.Tech,(Ph.D)
29	Ms.Manasa K.C	M.Tech
30	Mr.Nagaraj Gowda H	M.Tech
31	Ms.Ashwini	M.Tech

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16	Number of faculty with ongoing projects from a) National b) International funding agencies and grants received					
Sl no	Title of the project	National / international	Funding agency	Principal investigator/ co-investigator	Duration of the project	Amount sanctioned
1	NA					

17	Departmental projects funded by DST - FIST; UGC, DBT, ICSSR, AICTE, KSCST etc. and total grants received		
Sl no	Title of the project	Funding agency	Amount sanctioned
1	Wireless sensor networks in forest fire detection and Prevention.	KSCST	6,000.00
2	Implementation of Graphical LCD interface using ARM processor.	KSCST	6,000.00
3	DALI(Direct Addressing Lighting Interface)using the touch screen in real-time environment.	KSCST	7,000.00
4	Real ECG Machine with data transmission through Telephone.	KSCST	5,000.00
5	Separation and detection of blood components count using ARM processor.	KSCST	5,000.00
6	Agriculture Applications using Hybrid powers.	KSCST	7,500.00
7	Power generation by non conventional methods.	KSCST	5,000.00
8	Automation of Agriculture using Microcontrollers.	KSCST	6,000.00
9	Remote monitoring using GSM.	KSCST	3,000.00

18	Research Centre /Facility recognized by the University	The Department of Electronics and Communication Engineering is recognized as VTU RESEARCH CENTRE in the year 2014. Since then the research facility is available for research scholars to carry out research in their specific area and publish papers in reputed referred journals and International conferences.
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19	Publications (Faculty wise)		
Sl no	Faculty name	No of Publications	
1	Dr. Savitha Sonoli	25	
2	Mr. Dalal Shrivakumar	2	
3	Mrs. Prabhavathi S	14	
4	S.Ashabharathi	1	

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5	Mr. Surendranath H	3
6	Mr. Khaja Moinuddin	4
7	Mrs. Suvama S Patil	2
8	Mrs. Chinna V Gowdar	3
9	Mr. K. Phanindra Reddy	2
10	Mr. Shridhar S Bilagi	2
11	Mr. Lokesh K.S	6
12	Mr. Vinay A	1
13	Mr. Sharana Gouda V. Patil	5
14	Mr. Srikanth N	1
15	Mr. Veera Reddy	3
16	Mr. Sudharshan B	1
17	Mr. Sharana Basavaraj H	2
18	Mrs. Vani H	1
19	Mrs. Rohini H.M	1
20	Mr. Santhosh Mugali	8
21	Mr. Manjunath K.M	8
22	Ms. Manasa K.C	10
23	Mr. R. Pawan Kumar	2
24	Mr. Nagaraj Gowda H	1
25	Ms. Ashwini G	1

* **Number of papers published in peer reviewed journals(national/international) by faculty and students**

Total no of papers published in International journals: 40 (year-2011-17)

Total no of papers published in National journals: 11

Sl no	Title	Author	Name of the Journal	ISSN/ISBN	YEAR	VOLUME
1	Information Security Emergency Plan Management System	Mr. Khaja Moinuddin Mr. Lokesh K S Mr. Srikanth N Mr. Prashant Keri	IJAISC	ISBN-978-981-10-2750-5_14 Springer nature Singapore PTE.LTD DOI:10.1007	Jan 2017	
2	Mr. sharana basavaraj B Mr. Lokesh K S Ms. Manasa K C Mr. Santhosh M	Wireless Earthquake Alarm	IJARCE,	1 Vol. 6, Issue 7, July 2017 DOI 10.17148/IJARCE.2017.6705	2017	VOL 6
3	An Energy Efficient vMIMO based Routing & Topology construction	Dr. Prabhavathi S	IJREEICE	Issue 7 July 2016 DOI 10.17148/IJREEICE-2016.4744	July 2016	Vol 4

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		framework for WSNs					
	4	A New era in Fifth Generation Technology	Mr. Sharanagouda V Patil Mr. Veera Reddy	IJEATES	Issue 2, pp 189-195	2016	Vol. 5
	5	Design and Simulation of 10bit SAR ADC for Low Power Applications using 180nm Technology	Dr. Savita Sonoli	ICTECCOT	IEEE Conference ID:40038	Dec. 2016	
	6	Parameter Optimization for Forecasting of Boiler Losses and Efficiency using Stastical Model	Dr. Savita Sonoli	MAT JOURNAL		2016	Vol 2.
	7	Time series Analysis and Forecasting of Boiler Efficiency	Dr. Savita Sonoli	IJE&IE RD	2249-684X,ISSN 2249-7951	2016	Vol 6
	8	Time Series Analysis and Forecasting of Boiler Efficiency	Dr. Savita Sonoli	IJEIER D	Issue 1 ISSN(P) 2249-684X ISSN(E) 2249-7951	Feb 2016	Vol 06
	9	Quickest change detection and masking under active sensor networks	Ashwini G	IJECS	ISSN(online)-2347-2820	2016	Vol 4 Issue 8
	10	Routing Optimization with Load Balancing: an Energy Efficient approach	Mrs Prabhavathi S	IJANA	Issue 1, PP 2582 – 2592 ISSN:0975-0290	2015	Vol 7
	11	Efficient Load Balancing schema using Multiple Mobile Sink	Mrs Prabhavathi S	IJCA	No 8, PP 42-49	July-2015	Vol 122.
	12	Implementation of Monitoring Industrial Parameters and Providing Security by using Lab VIEW and NI myRIO	Mr. Shridhar S Bilagi /Ambrayya	IATIR	ISSN: 2348-2370	May 2015	Vol 7
	13	MQ Telemetry	Mr.	IJERSTE	ISSN	May	Vol 4

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		Transport Protocol Implementation Using LabVIEW	DalaiShivakumar /Geetha H.Y		2321-7308	2015	Issue 5
	14	Design and Development of an Intelligent Dynamic Path Finding/Surveillance Automated Guided Vehicle Using myRIO	Mr. K. Phanindra Reddy/ Bharathi.G	IJRET-	ISSN: 2321-7308	May 2015	Vol 4
	15	Design of MIMO Based on Minimum Distance in Physical Coding System	Mr. Surendranath H /Ghousia Begum. K	IJRIT	ISSN: 2001-5569	June 2015	Vol 3
	16	Spectrum Sharing for Large Scale Network in Cognitive Radio Network	Channaveerana Gouda	IJETR	ISSN: 2321-0869	June 2015	Vol 3
	17	Design and Realization of the Secure Cryptographic SHA-3 Algorithm for Efficient Operation	Dr. Savita Sonoli /Shivakumar Goud .K	IJATIR	ISSN: 2348-2370	June 2015	Vol 7
	18	Implementation of Fuzzy PID for Temperature Control with FTP Protocol Based on Lab VIEW	Mr.Lokesh K.S /Basavaraj A	IJATIR	ISSN: 2348-2370	July 2015	Vol 7
	19	Online Remuneration System at Toll Booth Automation	Chinna V Gowdar/Shilpa P.A	IJEETC	ISSN: 2319-2518	July 2015	Vol 4
	20	Wireless signal quality Enhancement by improving SNR for MIMO channels using 64 QAM	Mrs.Anita A /Pradeep Nandihalli	IJAREEIE	ISSN :2320 - 3765	July 2015	Vol 4
	21	Design and Development of Automated Soil Quality	Mr. Khaja Momuddin /Sridevi P.C	IJIREC	ISSN: 2349-4042	June 2015	Vol 2

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		Management System Using LabVIEW					
	22	An FPGA Based Reconfigurable Transceiver for SDR	Chinna V Gowdar / Ishwar c Hilli	IJATIR	ISSN: 2348-2370	June 2015	Vol 7
	23	Implementation of MQTT Protocol Using LabVIEW	Mr. DalalShivakumar / Geetha H.Y	IJRIT	ISSN: 2001-5569	June 2015	Vol 3
	24	Water Quality Measurement and Control from Remote Station for Pisciculture using NI myRIO	Mr. Khaja Moiruddin / Beena.v	IJIREC	ISSN: 2349-4042	June 2015	Vol 2
	25	Li-Fi Based Patient Monitoring System	Dr. Savita Sonoli	IJSETR	Issue 37 ISSN 2319-8885	Sep. 2015	Vol 04
	26	Fast Block LMS Adaptive Filter Using DATechnique for High Performance in FPGA	Naguraj Gowda H	IJERT	ISSN:2278-0181	Nov-2013	Vol 2 Issue 11

* Number of publications listed in International Database (For Eg: Web of Science, Scopus, Humanities International Complete, Dare Database - International Social Sciences Directory, EBSCO host, etc.)

* Monographs

Provide list

* Chapter in Books

Provide list

* Books Edited

Provide list

* Books with ISBN/ISSN numbers with details of publishers

Provide list

* Citation Index

Sl No	Name of Author	Title of the paper	Cited By	Year
1	Dr. Savita Sonoli	Implementation of FPGA based PID Controller for DC Motor speed Control system	14	2010
2	Dr. Savita Sonoli	Design and development of ARM platform based Embedded System measurement of Boiler Efficiency	3	2013
3	Dr. Savita Sonoli	Real Time Monitoring and	1	2013

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			measurement of Loss due to Dry Flue Gas for an Industrial Boiler		
*		SNIP			
		Provide list			
*		SJR			
		Provide list			
*		Impact factor			
		Name of the journal	Impact factor		
		IJSETR	3.59		
		IJECIERD	2.58		
		IJATIR	3.214		
		IJERSTE	2.371		
		IJRIT-	2.094		
		IJIREC	2.7		
		IJET	0.847		
		IJEC&IERD	5.2896		
*			h-index		

20 Areas of consultancy and income generated				
Sl no	Consultancy work	Year	Amount generated	
1	TCS	2015-2016	19,6260	
	NSE.IT		25,540	
	IJSE		30,000	
2	KPTCL	2014-2015	26,250	
	NSETT		15,000	
3	Nil	2013-2014		
4	Nil	2012-2013		
5	Nil	2011-2012		

21 Faculty as members in			
a)	International committees		
	Sl no	Faculty name	Committee member
	1	Dr Savita Sonoli	British Journal of Applied Science & Technology
b)	Sl no	Faculty name	Committee member
	1	Dr. Savitha Sonoli	IEEE,ISTE,ISRASE,IAENG,ISOL,ISCA,IEI
	2	Dr.Prabhavathi.S	LM-ISTE, ISRASE
	3	Mr. DalaShivakumar	ISTE, ISRASE,
	4	Mrs. Ashubharathi.S	ISTE, ISRASE, IAENG
	5	Mr. Surendranath H	ISTE, ISRASE, IEEE
	6	Mr. KhajaMoinuddin	ISTE, ISRASE, IAENG
	7	Mrs. Suvarna S Paril	ISTE, ISRASE, IEEE

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8	Mrs. Chinna V Gowdar	ISTE, ISRASE
9	Mr. K. Phanindra Reddy	ISTE
10	Mr. Shridhar S Bilagi	ISTE
11	Mr. Lokesh K.S	ISTE, ISRASE
12	Mrs. Anita A	ISTE, ISRASE, IAENG
13	Mr. Sharana Gouda V. Pail	ISTE, ISRASE
14	Mr. Md. Zakirulla	ISTE, ISRASE
15	Mr. Srikanth N	ISTE, ISRASE, IAENG
16	Mr. Veera Reddy	ISTE, ISRASE
17	Mr. Sudharshan B	ISTE, ISRASE
18	Mr. Prashanth Keni	ISTE, ISRASE
19	Mr. Sharana Basavara B	ISTE, ISRASE
20	Mrs. Vani H	ISTE, ISRASE
21	Mrs. Rohini H.M	ISTE, ISRASE
22	Mr. Santhosh Mugali	ISTE, ISRASE
23	Mr. Manjunath K.M	ISTE, ISRASE, IEEE, IAENG, UACEE
24	Ms. Manasa K.C	ISRASE, IAENG
25	Mr. Nagana Gowda H	IAENG, IRED

22	Student projects				
	<p>Students are encouraged to carry out research oriented projects which are of social relevance involving state-of-art and inclusive technology.</p> <p>Students get an opportunity to use latest tools and technical know-how in the process of executing the project.</p> <ul style="list-style-type: none"> • Students are provided the required infrastructure to do their projects (in-house). • Risks are discussed at each project progress review meeting. • The Department keeps track of the progress of the project in terms of completion, time and costs. • To enforce team work, students are asked to form a group of 3 to 4 members to carry out the project work. This enables them to build team spirit and helps in co-coordinating various activities. <p><i>a) Percentage of students who have done in-house projects including inter departmental/programme</i></p> <p><i>b) Percentage of students placed for projects in organizations outside the institution i.e. in Research laboratories/Industry/ other agencies</i></p>				
*	Sl no	Programme	Year	% of projects done inside the Institute (a)	% of projects done outside Institute (b)
	1	Under Graduate BE (ECE)	2016-2017	100%	
	2		2015-2016	88%	12%
	3		2014-2015	100%	
	4		2013-2014	100%	
	5		2012-2013	100%	
	6		2011-2012	100%	
	1	Post Graduate	2016-2017		100%

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	2	M.Tech(DCN)	2015-2016		100%
	3		2014-2015		100%
	4		2013-2014		
	5		2012-2013		
			2011-2012		

23 Awards / Recognitions received by faculty and students						
Following Students received awards/recognitions in various events.						
Sl.No	Year	Name of the Faculty/student	Date	Event Name	Venue	Award
1	2016	Dr.Savita Sonoli Prof & HOD	1 st Feb. 2016	Paper Presentation	IJEC & IERD Jainal	Best paper
2	2015	Mr. Basavaraj D, Mr. Bharath Kumar S, Mr. Mustafa P	21 st April 2015	"Ball- Badminton" Competition	VTU Sports Event held at RL Jalappa Institute of Technology, Doddaballapur	Runners
3	2015	Mr. Suhas	March 2015	"GRE & TOFEL"		Successfully cleared
4	2015- 2016	Ms. Pooja H & Ms. Navya Desai	2 nd & 3 rd of November 2015.	Poster Presentation with title "Digital India"	Exigent tech Fest 2015 organized by department of Computer Science & Engineering, RYMEC Ballari	3 rd position
5	2014- 2015	Mr. Abhishek Reddy (Team captain) & team	4 th March 2015.	"Inter Collegiate Cricket Tournament"	VTU Sports Event which was held at Kalburgi	Winners
6	2014	Chetana N T	13 th / 14 th march 2014.	C-Coding in "Wonders'14"	PDIT, Hospet	First place
7	2014	Mr. Shiva Shankar & Mr. Shashi Ram	27 th to 29 th march 2014	Movie Making event in Insinia'14	SDMCE, Dharwad	First place
8	2012- 2013	Dr.Savita Sonoli Prof & HOD		TI India Analog Design Contest		Awarded with cash prize of Rs10000/-
9	2013- 2014	Mr.Himavanth Reddy T	16 th to 19 th November 2013	Triple Jump @VTU 6 th Inter Collegiate athletic Meet	JNNCE, Shimoga	3 rd Place

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10	2012-2013	Dr.Savita Sonoli Prof & HOD	16 th & 17 th Feb 2012	NCCTIRD	Sri Krishna College of Engg & Technology	Best paper Award
11	2012-2013	Mr. Khaja Moimuddin, Associate Professor	July 2013	M.Tech (I & CS)	VTU, Belgaum	1st Rank (Gold Medal)
12	2011-2012	Mr. Santosh Mugali Assistant Professor	July 2012	M.Tech (Signal Processing)		VTU 3 rd rank
13	2010	Dr.Savita Sonoli Prof & HOD	6 th & 7 th August 2010	Project Exhibition	Sridevi Institute of Engg & Technology	Project of the year award
14	2009-2010	Dr.Savita Sonoli	June 2010	'Group Study Exchange Member (GSE)	Michigan & Wisconsin of USA"	Was selected

24 List of eminent academicians and scientists / visitors to the department

Sl.No	Department	Topic	Resource Person with designation	Date of visit
1	E&CE	One day seminar on "Self help motivation & perception about the world" by	Sri Vivek Machannil Gen.Manager M G Automobiles(sales and services) Ballari	10 th Sept 2016
2	E&CE	One Day Seminar on "Network Design & Implementation in corporate world"	Sri. Rakesh M Project Manager Cognizent	17 th September 2016
4	E&CE	Tech Suchi		31 st May 2015
5	E&CE	Entrepreneurship Skills & Project Management	Mr.Loka Reddy SAN disk, Bengaluru	19 th September 2015

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6	E&CE	Chase Your Dreams & Professional Ethics	Sri Nirbhayananda Saraswathi Swamji, President, Ramakrishna Mission, Gadag & Vijayapura	08 th October 2015
7	E&CE	One day seminar on "Personality Development program"	R.R.Naickji	14 th December 2015.
8	E&CE	Legal Awareness Program On "Anti-Ragging & Crime Against Women"	Hon ^{ble} M.L. Raghunath, Dist. Judge, Family Court, Ballari Sri Chetan Singh Rathore, Superintendent of Police Ballari	4 th August 2014
9	E&CE	A Seminar on "Meditation & Power of Thoughts" for Faculty of all Departments	Mr. Ramesh	16 th August 2014
10	E&CE	Introductory Talk on Project Lab-A concepts	Mr. Sunil, GM, ALS, B'lore Mr Ganesh AM, ALS, B'lore	20 th August 2014
11	E&CE	A Seminar on "Industrial Automation & Embedded System"	Mr.H S Shivashankar, Branch Manager, Prolific Systems, B'lore	11 th February 2011
12	E&CE	A seminar on "Career Guidelines" for Pro-Final & Year Students	Mr. Raghu Raj V System Engg., TCS, b'lore Mr. Sandeep Jain, Software Engg., Robert Bosch, B'lore Mr. Manoj K. V, Software Engg., Honeywell, B'lore Mr. Shaik Maktum, Test	02 nd September 2011

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			Engg., NSM, B'lore Mr. Mahesh, Software Engg., Dell, B'lore Mr. Hari Prasad M L, Power Engg., JPP, Jaipur Mr. Raghavendra Reddy, Engg., Siemens, B'lore	
13	E&CE	A seminar on "Career Guidelines " for outgoing Students	Mr. S Mahalingaswamy, Dy. Manager, JSW Energy Ltd. Torangallu	12 th June 2010
14	E&CE	A seminar on "Career Guidelines " for Pre-Final & Year Students	Mr. N. B Katte, Professor, BITM, Ballari	10 th October 2010
15	E&CE	One Day Workshop on "Electronic Workbench " for Students	Mr. B. Nagaraj Reddy, Sr. Technical Staff, Sandeepani School of VLSI system, B'lore Mr. Santhosh Patil, Lecturer Mr. Sharana Basava Raj, B, Lecturer	25 th October 2010
16	E&CE	A seminar on "P.L.C's & applications"	Mr. Irshad Ali, JSW Torangallu	19 th November 2009

Sl no	Activities	Name of the Short Term Course / Training /FDP Conducted	Funding agency	Amount	Duration Month and year	No of Participants
1	FDP	Six days Faculty Development Program on "Latex & Research Methodology"	RYMEC, Ballari	RS 2000/-	16-21 st Jan 2017	55
2	FDP	"Recent Trends in Electronics & Communication Engineering"	RYMEC, Ballari		25 th -30 th January 2016	27
3	Workshop	Two days workshop in association with	RYMEC, Ballari	RS 5000/-	7 & 8 th Oct 2016	60

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		CoreEL Technologies Bangalore on "Hands on Training using Matlab & Simulink"				
4	Workshop	Workshop on "MultiSim Software"	RYMEC, Ballari	RS. 2000/-	3 rd Nov 2016	57
5	FDP	"Circuit Analysis & Simulation"	RYMEC, Ballari		20 th -23 rd July 2015	22
6	State level workshop	"Advanced Comprehension Learning Using MATLAB & Simulink"	ISTE ISTE/KS/2015/051	Rs 5000/-	24 th -26 th August Dr:11- dec-2015	45
7	FDP	Two Days State Level Workshop on "Fundamental Of LabView & Its Applications"	Mr.Viswewaram J, Academic Technical Consultant, National Instruement, India Mr. Shashank Application Engineer Tech Labs Prof. T. K. Padma gayatri Prof. M. S. Divya Rani Sir. MVIT, B'lore	ISTE (3000/-)	25 th -26 th July 2014	36
8	FDP	"Recent Advancements in the Field of DSP"	Dr. Subbanna Bhat, Director, Eklakshya VLSI Labs, BVB Hubli Dr. Ashok Rao, Head, Network Project, CEDT, IISC, B'lore Dr. Arulalan Rajan, CEDT, IISC, B'lore		17 th -19 th February 2011	30
9	FDP	Five Days State Level Workshop on "Digital Designing for FPGA's Using VHDL."	RYMEC, Ballari		5 th -9 th April 2010	100

26	Student profile programme/course wise					
	Name of the Course	Academic year	Application Received	Selected Seats		Pass Percentage
				Male	Female	
	BE: (ECE)	2016-2017	Admission	74	35	Eligibility

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		2015-2016	through	18	49	criterion is 40% for SC/ST and 45% for others
		2014-2015	KEA/	22	51	
		2013-2014	COMED-K	24	51	
		2012-2013		26	49	
		2011-2012		41	44	
	M.Tech (DCN)		Admission	2	2	Eligibility criterion is 40% for SC/ST and 45% for Others
		2015-2016	through	1	3	
		2014-2015	KEA	5	4	
		2013-2014		4	7	

27 Diverity of Students					
	Name of the Course	year	% of students from the same state	% of students from other States	% of students from abroad
1	Under graduate BE (ECE)	2016-2017	94.65%	5.35%	NIL
		2015-2016	98.98%	1.02%	
2		2014-2015	96.52%	3.48%	
3		2013-2014	99.02%	0.98%	
4		2012-2013	94.02%	5.98%	
5		2011-2012	88.50%	11.50%	

28 How many students have cleared national and state competitive examinations such as NET, SLET, GATE, Civil services, Defense services, etc.?				
	State level	No of Students	National level	No of Students
	NET	---	GATE	3
	SLET	---	GRE/TOEFL	3

29 Student progression						
Student progression	Percentage against enrolled					
	2015-2014	2013-2014	2012-2013	2011-2012	2010-2011	
UG to PG	4	10	10			
PG to MPhil						
MPhil to Ph.D						
Ph.D to Post Doctoral						
Employed						
Campus selection	24	19	11	32	56	
Other than campus recruitment	6	35				

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Entrepreneurship/Self-employment	2	3	3	2	1
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30	Details of Infrastructural facilities				
	a) Library facilities				
	Total no of Volumes	3947			
	Journal	15			
	Project Report	158			
	News Letters	Available			
	Syllabus	Available			
	Question Bank	Available			
	Digital Library	192.168.8.4:8080—Engg books 192.168.8.4:8081—General books			
	E-journal	Available			
	b) Internet facilities for Staff & Students --Yes				
	Sl.No	Laboratory	Switches	ports	Nodes
	1.	VLSI Lab	24port switch	48	31
	2.	DSP Lab	24 port switch	24	20
	3.	AEC/PE Lab	16 port switch	27	10
	4.	IC/MP Lab	24port switch	24	01
	5.	Communication Lab	No switch	26	-
	Service provider: BSNL Bandwidth: 10 Mbps till 50GB beyond that 2Mbps.				
	c) Class rooms with ICT facility				
	Projector, E- content(VTU-EDUSAT)				
	d) Laboratories				
	10-UG Lab		1- PG Research Lab		

31	Number of students receiving financial assistance from college, university, government or other agencies					
	YEAR	Central Government Scholarship for SC/ST (Karnataka)	Fee Concession for OBC students (Karnataka)	Ex-Defence children scholarship	Municipal Scholar	Others
	2016-2017			--		
	2015-2016	335	701	--	06	02
	2014-2015	336	227	--	22	17
	2013-2014	322	497	--	28	02
	2012-2013	188	466	--	14	04
	2011-2012	379	261	--	04	04

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32	Details on student enrichment programmes (special lectures / workshops / seminar) with external experts			
	Sl. No	Topic	Date	Resource Person with designation
	1	Three days workshop on "Yoga Shikshana Shibira"	23 rd to 25 th June 2016.	Mr. I Pampapathi & Team
	2	One day seminar on "Self help motivation & perception about the world"	10 th September 2016	Sri Vivek Machanni
	3	One Day Seminar on "Network Design & Implementation in corporate world"	17 th September 2016	Sri Rakesh M
	4	Two days workshop on "Yoga for Balanced Life"	24 th & 25 th September 2016	Mrs. Pushpa Latha Sreedhar
	5	Two days workshop in association with CoreEL Technologies Bangalore on "Hands on Training using Matlab & Simulink"	7 th & 8 th October 2016	Mr. Chandrasekhar Mr. Pramod Naik CoreEL Technologies Bangalore
	6	One Day Seminar on "Entrepreneurship and Development Skills"	12 th November 2016.	Mr. Kotresh K.R
	7	Advanced Comprehensive learning using MATLAB & SIMULINK	24 th -26 th August 2015	Mr. Parameshwara Naik, Zonal Manager CoreEL Technologies. Mr. Chandrasekhar Mr. Madukiran
	8	Spiritual talk	8 th October 2015	Sri Sri Sri Nirbhayananda Saraswati Swamiji, President, Rama Krishna Mission, Gadag
	9	ERGONOMICS	23 rd January 2014	Mr. Basavaraj C H, CEO, BCS Innovations, Bengaluru
	10	Storage Technology & Cloud computing	21 st November 2013	Mr. Lokareddy, Project Manager

33	Teaching methods adopted to improve student learning
	PPTs, Class room teaching, Assignment, Tutorial class, Remedial class, Seminars.
	Learning Management System, NPTEL Lectures
	<ul style="list-style-type: none"> ➤ Identifying similarities and differences. ➤ Summarizing and note-taking. ➤ Reinforcing effort and providing recognition. ➤ Homework and practice.

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	<ul style="list-style-type: none"> ➤ Cooperative learning. ➤ Setting objectives and providing feedback. ➤ Generating and testing hypotheses. ➤ Questions, cues, and advance organizer. ➤ By providing assignments and having appropriate formats to Verify the same. ➤ Providing well equipped laboratories.
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34	Participation in Institutional Social Responsibility (ISR) and Extension activities		
	Academic Year 2016-17		
	Sl.No	Date	Event
	1	09/03/2017	Blood donation camp organized by NSS(380 volunteers donated blood)
	2	15/08/2017	"Go Green RYMEC-2017 "Plantation in Campus. "Green revolution the best way to arrest pollution
	Academic Year 2015-16		
	Sl.No	Date	Event
	1	18/03/2015	Swachh Bharat Abhiyan in College Campus
	2	5/8/2015	"Go Green."-Plantation in Campus, A Tribute to Missile Man Abdul Kalam
	3	07/11/2015	Blood donation camp organized by NSS(260 volunteers donated blood)
	Academic Year 2013-14		
	Sl.No	Date	Event
	1	21/09/2013	Blood donation camp organized by NSS(259 volunteers donated blood)
	Academic Year 2011-2012		
	Sl.No	Date	Event
	1	05/11/2011	Blood donation camp organized by NSS(251 volunteers donated blood)
	2	1/05/2011	Free medical camp at Mundaragi (350 patients)
35	SWOC analysis of the department and Future plans		
	Strengths		
	<ul style="list-style-type: none"> • Excellent infrastructure • Well Equipped Laboratories • Availability of Licensed Software • AICTE/MODROBS Funds • Well Qualified Experienced Faculty • MOU with Industries • EDUSAT facility • Wi-Fi facility • Research Centre • Students participation in National/ State level project exhibitions 		
	Weakness		
	<ul style="list-style-type: none"> • Deficiency of Professors as per norms • Fewer number of IEEE/SPRINGER Publications 		

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	<ul style="list-style-type: none">• Consultancy to be Improved• Departmental Alumni interaction to be strengthened
	Opportunity
	<ul style="list-style-type: none">• To Participate in Various Technical STP/FDP /Workshop / Seminars• Faculties are encouraged to pursue Higher Studies and Publish Books/Papers.
	Challenges
	<ul style="list-style-type: none">• 100%Placement• Graduating the Students with poor CET Admission Ranking in a stipulated period of 4 years• To bridge the gap between Academy and Industry.• Faculty knowledge up gradation with the current technology.
	Future plans
	<ul style="list-style-type: none">• PCB design for 5th semester.• Network Programming lab for 7th semester.• MiniProjects for 3rd, 5th and 7th semester students.• Industrial visits for 7th semester students.• Circuit Simulation using Multisim for 3rd semester students.

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DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

Evaluative Report of the department

1	Name of the department	Electrical And Electronics Engineering
2	Year of Establishment	1983
3	Names of Programmes / Courses offered (UG, PG, M.Phil., Ph.D., Integrated Masters; Integrated Ph.D., etc.)	Electrical And Electronics Engineering - UG (BE)
4	Names of Interdisciplinary courses and the departments/units involved	<ul style="list-style-type: none">• Department of Mathematics (maths for 1st and 2nd year)• Department of Physics (physics for 1st year)• Department of Chemistry (chemistry for 1st year)• Department of Mechanical engg (EME,CAD and work shop for 1st year)• Department of Electronics and Communication engg (Basic Electronics for 1st year)• Department of Civil engg (elements of civil engg., and environmental for 1st year)
5	Annual/ semester/choice based credit system (programme wise)	2010 - 2014 batch semester wise 2015- 1 st year CBCS system
6	Participation of the department in the courses offered by other departments	Basic Electrical Engineering
7	Courses in collaboration with other universities, industries, foreign institutions, etc.	NIL
8	Details of courses/programmes discontinued (if any) with reasons	NIL
9	Number of Teaching posts	28

	Sanctioned	Filled
Professors:	3	3
Associate Professors	6	8

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Asst. Professors	19	15
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10	Faculty profile with name, qualification, designation, specialization, (D.Sc./D.Litt. /Ph.D. / M. Phil. Etc.,)				
Name	Qualification	Designation	Specialization	No. of Years of Experience	No. of Ph.D. Students guided for the last 4
Dr. Pradeep B. Jyoti	M.E. PhD	Professor &HOD	Power Electronics	31	2
Dr. S.M. Shashidhar	M.E. PhD	Professor	Power Electronics	31	1
Dr. U.M.Naravati	M.Tech./PhD	Professor	Power Electronics	15	
Ananya Patil	ME/ (PhD)	Associate	Power Electronics	22	
M.Jayashankar	M.S	Associate Professor	Electronics Engineering	28	
B. Doddabasavanna Gouda	M.Tech (PhD)	Associate Professor	Digital Electronics	26	
K.Raghuvendra Prasad	M.Tech(PhD)	Associate Professor	Digital Computer & electronics	23	
K.K. Gururaj	ME	Associate	Control System's	18	
Kotresh. S	M.Tech	Associate	HM Instruction	17	
Hanumantha Rao	M.Tech(PhD)	Associate	Power &Energy System	02	
Shanthulinger	M.Tech	Asst. Professor	Maintenance	09	
Kumuda. B	M.Tech	Asst. Professor	Digital Electronics	08	
A. Sharanabasappa	M.Tech(PhD)	Asst. Professor	Digital Electronics	08	
Linganna gouda. R	M.Tech	Asst. Professor	Power &Energy System	05	
Vinay Kumar. H	M.Tech	Asst. Professor	Micro electronics &control system's	04	
Shanthi kumar. U	M.Tech	Asst. Professor	Power electronics	04	
Hanumanth J.Reddy/Keddy	M.Tech	Asst. Professor	Power electronics	05	
Shashikala. RM	M.Tech	Asst. Professor	Vlsi Design& Embedded system	02	
Rajashakar	M.Tech	Asst. Professor	Digital Electronics	04	
Deepa. B	M.Tech	Asst. Professor	Digital Electronics	02	
Zoya Parvez. S	M.Tech	Asst. Professor	Vlsi Design &Embedded System	1.5	
Pyriti Raju	M.Tech	Asst. Professor	Electrical Power System	2.8	
Shashidhar. R	M.Tech	Asst. Professor	Power Electronics	6	
Ravikumar. H.M	M.Tech	Asst. Professor	Power Electronics	3	
Mohammad. Ershad	M.Tech	Asst. Professor	Power system Engineering	0	

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A. Vennela	M.Tech	Asst. Professor	Electrical Power systems	8.6	
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11	List of senior visiting faculty		
Sl no	Name of Visiting Faculty	Qualification	Experience
1	_____	_____	_____
2	_____	_____	_____
3			
4			
5			

12	Percentage of lectures delivered and practical classes handled (programme wise) by temporary faculty
	—

13	Student-Teacher Ratio (programme wise)				
Student Teacher ratio Programme wise has been mentioned in the table below:					
Sl no	Programme	Year	No of students	No of teachers	Student: teacher ratio
1.	UNDER GRADUATE BE: (EEE)	2016-2017	359	26	13.80
2.		2015-2016	360	21	17.14
3.		2014-2015	288	18	16
4.		2013-2014	216	12	18
5.		2012-2013	216	12	18
6.		2011-2012	216	13	16.61

Sl no	Programme	Year	No of students	No of teachers	Student: teacher ratio
1.	POST GRADUATE MTECH: ()		NIL		

14	Number of academic support staff (technical) and administrative staff; sanctioned and filled
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The below given table gives the cadre wise structure of academic support:		
	Sanctioned	Filled

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Administrative staff		
Lab instructor		3
Assistants		6

15 Qualifications of teaching faculty with DSc/ D.Lit/ Ph.D/ MPhil / PG.		
Sl no	Faculty Name	Qualification
1	Dr Pradeep B Jyoti	BE, M.E, PhD
2	Dr Shashidhar S M	BE, M.E, PhD
3	Dr. U.M. Netravasti	BE,M Tech, PhD
4	Anusuya Patil	BE, M.E, (PhD)
5	M. Jayashankar	BE, M.S
6	Dodda Basavama Giuda	BE, M.Tech, (PhD)
7	K Raghavendra Prasad	B.E, M.Tech.(PhD)
8	Kotresh S	BE, M.Tech. (PhD)
9	Gururaj K.K	B.E,M.E
10	Hanumantha Rao A	BE, M.Tech. (PhD)
11	Shambulingana Goud	B.E, M.Tech
12	B Kumuda	B.E, M.Tech
13	A Sharanabasappa	B.E, M.Tech, (PhD)
14	Linganagoud R	B.E, M.Tech
15	Vinaykumar H	B.E, M.Tech
16	Shanthakumar U	B.Tech, M.Tech, (PhD)
17	Hanumantha Reddy	B.E, M.Tech
18	Shashikala R.M	B.E, M.Tech
19	Rajsekhar K	B.E, M.Tech
20	Deepa. B	B.E, M.Tech
21	Zoya Parvez	B.E, M.Tech
22	Pyinti Raju	B.Tech, M.Tech
23	Shasidhar.R	B.Tech, M.Tech
24	Ravikumar.H.M	B.E, M.Tech
25	Mohammad Ershhad	B.E, M.Tech
26	A.Vennela	B.Tech,M.Tech

16 Number of faculty with ongoing projects from a) National b) International funding agencies and grants received						
Sl no	Title of the project	National / international	Funding agency	Principal investigator/ co-investigator	Duration of the project	Amount sanctioned
1						
2						
3						

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17	Departmental projects funded by DST - FIST, UGC, DBT, ICSSR, etc. and total grants received			
S/no	year	Title of the project	Funding agency	Amount sanctioned
1				
2				

18	Research Centre /facility recognized by the University
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19	Publications:		
	• Publication per faculty		
	Sl no	Faculty name	No of Publications
	1.	Dr. Pradeep B Jyoti	11
	2	Dr. Shashidhar S M	7
	3	Dr. U.M. Netravati	6
	4	Anusuya Patil	0
	5	M. Jayashankar	0
	6	Dodda Basavanna Gouda	4
	7	K Raghavendra Prasad	1
	8	Kotresh S	6
	9	Gururaj K. K	0
	10	Hanumantha Rao A	1
	11	Shambulingana Goud	0
	12	B Kumada	0
	13	A Sharanahasappa	3
	14	Linganagoud R	4
	15	Vinaykumar H	0
	16	Shanthakumar U	3
	17	Hanumantha Reddy	5
	18	Shashikala R M	0
	19	Rajsekhar K	4
	20	Deepa. B	1
	21	Zoya Parvez S	1
	22	Pyinti Raju	1
	23	Shasidhar.R	0
	24	Ravikumar.H.M	0

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	25	Mohammad Ershaad					1
	26	A.Vennela					1
	Number of papers published in peer reviewed journals (national /international) by faculty and students						
	Total No. of papers published in International Journal :						
	Total No. of papers published in National Journal :						
	Sl n o	Title	Author	Name of the Journal	ISSN/I SBN	YEA R	VOLUME
	1	Diagnosis of Broken Rotor Bars in Induction Motors by using Virtual Instruments	Dr S. M. Shashidhar	UJET	ISSN : 2231-1297	Sept-Oct 2013	Vol.03 No.08,
		Stator Winding Fault diagnosis by Park's Vector Approach of 3-Phase Induction Motor	Dr S. M. Shashidhar	UAREEIE	ISSN: 2230-3765	July 2013	
		FPGA based Embedded System Development for Rolling Bearings Fault Detection of Induction Motor	Dr S. M. Shashidhar	URES	ISSN: 2089-4864	Nov 2013	Vol. 02, No. 03
		Tradeoff Analysis of Wavelet Transform Techniques for the detection of Broken Rotor Bars in induction Motors	Dr S. M. Shashidhar	Advances in Electronics and Electronic Engineering	ISSN : 2231-1297,	2 013	Volume 03, Number 8
		Bearing fault detection of induction motor by ANN method	Dr S. M. Shashidhar	UEETC	23192-2518	Jan 2014	Volume 03, Number 1
		Field programmable Gate arrays and their applications	Dr S. M. Shashidhar	UEETC	23192-2518	Jan 2014	Volume 03, Number 1

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		Embedded system development for multiple fault diagnosis of induction motor	Dr. S. M. Shashidhar	IJAREEIE	2278-8875 Online 2320-3765 print	Feb 2015	Vol. 04, Issue 02
	2	Comparison of Harmonics and Current Ripple Reduction using Various PWM Techniques in Indirect Vector Control	Dr. Pradeep B Jyothi	IICSNS		December 2012	Vol 12, No. 12
		Application of Neuro Fuzzy Controller in Torque Ripple Minimization of Vector controlled VSI Induction Motor Drive	Dr. Pradeep B Jyothi	IJEET	ISSN 0976-6545	May-June 2013	Vol. 04, Issue 03
		The Scheme of Three-Level Inverters based on SVPWM over modulation Technique for Vector Controlled Induction Motor Drives	Dr. Pradeep B Jyothi	IJEET	ISSN 0976-6545	March-April 2013	Vol 04, Issue 02
		Evaluation of Various types of Indirect vector control of Induction Motor drives	Dr. Pradeep B Jyothi	IJETCAS	ISSN 2279-0047	Year 2013	
		Carrier Based Hybrid PWM Algorithm with reduced common mode Voltage for Three Phase Voltage Source Inverter Fed Vector controlled	Dr. Pradeep B Jyothi	IJSER	ISSN 2229-5518	June 2014	Vol 5, Issue 06

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		Induction Motor Drives.					
		Simple Carrier Based AZSPWM Algorithms for Vector controlled Induction Motor Drive for Reduced common mode voltage	Dr. Pradeep B Jyothi	I.Re.MO.S (International Review on Modeling and simulations)	ISSN 1974-9821	June 2014	Vol 7, No. 03
		Carrier Based Hybrid PWM Algorithm with Reduced common mode voltage for three phase voltage source inverter fed Induction motor Drives.	Dr. Pradeep B Jyothi	JEET	ISSN 0976-6545	January 2015	
		Performance Analysis of Various PWM techniques in indirect Vector control of Three phase Induction Motor involving the Initial Transients	Dr. Pradeep B Jyothi	Bonfring International Journal of Power Systems and Integrated circuits		November 2015	Vol 05 Special Issue
		PC Add-on Card for High Voltage control	Dr. Pradeep B Jyothi	Bonfring International Journal of Software Engineering and soft computing	ISSN 2250-1045	November 2015	Vol 05, Spl. Issue,
		Knowledge Based Expert System for Problem Solving in Medical Science	Dr. Pradeep B Jyothi	Bonfring International Journal of Software	ISSN 2250-1045	November 2015	Vol 05, Spl. Issue,

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				Engineering and soft computing			
		Using Natural Language Processing for Various Engineering Applications	Dr. Pradeep B Jyothi	Bonfring International Journal of Software Engineering and soft computing	ISSN 2250-1045	November 2015	Vol 05, Spl. Issue,
	3	A Review of Recent Advances in Separation and Detection of Whole Blood Components	Doddabasa van Goud B	WJST	ISSN:2231-2587		
		A Sample Instrumentation System for Separation of Whole Blood Components Using Centrifuge Technique and Measurement of RBC	Doddabasa van Goud B	URET	eISSN:2319-1163		Vol.3, Issue 3
		Advanced Instrumentation System Using ARM Controller for Blood Analysis Optimization of Capillary	Doddabasa van Goud B	USER	ISSN-2229-5518,	Sep	Vol.5, Issue 9
		A Comprehensive Review on Estimating The Blood Cell Count Using Various Advanced Techniques	Doddabasa van Goud B	ULRST	ISSN:2278-5299	March-April-2015	Vol.4, Issue 2
	4	Hybrid KEA technique for face	K. Raghavend	IDSR			

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		recognition	ra prasad				
	5	EEG Seizure Analysis using wavelets during ECT Stimulus	Kotresh S	UESC	2250-1371 print 2321-3361 online	JUNE-2016	Vol.6 Iss.6
		All pole modeling of visual evoked potentials in diagnosing severity of optic neuropath diseases	Kotresh S	UESC	2250-1371 print 2321-3361 online	JUNE-2016	Vol.6 Iss.6
		A Novel idea to conserve rain water and generate electrical energy - A New perspective	Kotresh S	UAREEIE	2320-3765 print 2278-8875 online	JUNE-2016	Vol.5 Issue.5
		Analysis of EEG Seizure using fractal dimensions by the application of ECT stimulus to cerebral cortex	Kotresh S	URITCC	2321-8169	FEB2016	Vol.4 Issue.2
		Autoregressive modeling of visual Evoked potentials & its applications to optic nerve disease, neuropathy & optic neuritis	Kotresh S	URITCC	2321-8169	FEB2016	Vol.4 Issue.2
		Acquisition of EEG seizure during ECT	Kotresh S	JMSCR	2347-176X	MAY-2014	Vol.42 Issue.5
	6	Effect of temperature on short term load forecasting using an Integrated AAN	A.Hanuma ntha Rao	EPSR		Nov 2004	Vol.72, Issue 01
	7	A self starting switch mode power supply for flying capacitor voltage source inverter	A. Sharanabas appa	UPSIC	2250-1088	NOV-2015	Vol.5
		Comparison of harmonics and current ripple	A. Sharanabas appa	UPSIC	2250-1088	NOV-2015	Vol.5

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		reduction using various PWM Techniques in indirect vector control					
		Aerodynamic wind mill with reverse charge protection for rural power Generation applications	A Sharanabasappa	UAREEIE	2278-8875	MAY-2016	Vol:5
	8	A comparative analysis of thyristor based swiftness organize techniques of DC motor	Shantha kumar U	IJMER	2249-6645	Feb 2016	Vol 6 Issue 2
		Advanced automation system in industrial applications using PIC microcontroller and GSM	Shantha kumar U	IJMER	2249-6645	July 2014	Vol 4 Issue 7
		Total harmonic distortion-alleviation by using shunt active filter	Shantha kumar U	IJMER	2249-6645	Sep-oct 2013	Vol 3 Issue 5
	9	comperison of hasmonics & current ripple reduction using sing various PWM techniques in indirect vector	Hanumant hareddy	UPSIC	2250-1088	NOV-2015	5
		A Self starting switch mode power supply for flying capacitor voltage source inverter	Hanumant hareddy	UPSIC	2250-1088	NOV-2015	5
		Automation fire Detection using GSM & Image processing	Hanumant hareddy	UAREEIE	2278-8875	NOV-2015	5
		Detecting vital signs with wearable wireless sensors	Hanumant hareddy	UAREEIE	2278-8875	NOV-2015	5
		Texture Based Image classification	Hanumant hareddy	UECE	2249-071	MAR-APR-2013	4
	10	Comparison of harmonics & current ripple reduction using various PWM techniques in indirect vector	Rajashekhar K	UPSIC	2250-1088	NOV2015	5

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	Provide list
*	Books Edited
	Provide list
*	Books with ISBN/ISSN numbers with details of publishers
	Provide list
*	Citation Index
	Provide list
*	SNIP
	Provide list
*	SJR
	Provide list
*	Impact factor
	Provide list
*	h-index
	Provide list

20	Areas of consultancy and income generated			
	Sl no	Consultancy work	year	Amount generated
			2016-2017	
	1		2015-2016	
	2		2014-2015	
	3		2013-2014	
	4		2012-2013	
	5		2011-2012	

21	Faculty as members in			
	a)	National committees		
		Sl no	Faculty name	Committee member
		1		
		2		
		3		
	b)	Sl no	Faculty name	Committee member
		1		
		2		
		3		

22	Student projects
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Students are encouraged to carry out research oriented projects which are of social relevance involving state-of-art and inclusive technology. Students get an opportunity to use latest tools and technical know-how in the process of executing the project.

- Students are provided the required infrastructure to do their projects (in-house).
- Risks are discussed at each project progress review meeting.
- The Department keeps track of the progress of the project in terms of completion, time and costs.
- To enforce team work, students are asked to form a group of 3 to 4 members to carry out the project work. This enables them to build team spirit and helps in co-coordinating various activities.

a) Percentage of students who have done in-house projects including inter departmental/programme

b) Percentage of students placed for projects in organizations outside the institution i.e.in Research laboratories/Industry/ other agencies

•	Sl no	Programme	Year	% of projects done inside the Institute (a)	% of projects done outside Institute (b)
	1.	Under Graduate BE (EEE)	2016-2017	100	0
	2.		2015-2016	100	0
	3.		2014-2015	100	0
	4.		2013-2014	100	0
	5.		2012-2013	100	0
	6.		2011-2012	100	0

23 Awards / Recognitions received by faculty and students

Following Students received awards/recognitions in various events.

year	Name of the student	Date	Event Name	Venue	Award
2016-2017	NIL	NIL	NIL	NIL	NIL
2015-2016	NIL	NIL	NIL	NIL	NIL
2014-2015	Md Saifull & others	25/5/2015	KSCST Project	BVB Hubli	Cash price of Rs 6500/-
2014-2015	Mr.Naredra kumar S & others	15/4/2015	Srushti 2015	SIT, Tumukur.	Bagged 1 st prize
2013-2014	NIL	NIL	NIL	NIL	NIL
2012-2013	NIL	NIL	NIL	NIL	NIL
2011-2012	NIL	NIL	NIL	NIL	NIL

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24				
AY	Sl no	topic	Resource Person with designation	Date of visit
2016-2017	1	Faulty Development program on "Linear Integrated Circuits And Electromagnetic fields Theory"	Dr.V.D.Kujakarni, Technical consultant, Bangalore	21-01-2017
2016 -2017	2	Invited talk on "Modernization Of Power systems In India"	Dr. Ramesh Chakrasal Professor, EEE Dept,SDM COLLEGE,DHARWAD	27-04-2017
2015 -2016	3	Faulty Development program "Innovative Electrical Technologies"	Dr B A Patil Director-R&D Think & Ink Education & Research Foundation, Bengaluru	11-01-2016
	4	Faulty Development program "Innovative Electrical Technologies"	Dr.Sharada Prasad KNSIT Bengaluru	12-01-2016
2014 -2015	5	Faulty Development program "Circuit Analysis & Simulation"	Prof PM Chandra Sekhraiiah, Bengaluru	20-07-2015
	6	Faulty Development program "Circuit Analysis & Simulation"	Prof Rohini Patil BVB college of Engg, Hubballi	22-07-2015
2013 - 2014	7	Invited talk on Power quality improvement	Dr. C.Venkatesh,SR Engg College, Warangal	26-09-2013
	8	Invited talk on Electrical power utilization & traction	Dr.Basavaraja Banakara, GITAM,Hyderabad	26-09-2013
2012 - 2013	9	Seminar on Introduction to MAT Lab & its applications to power systems	Dr.Sudharshan Reddy,UBDT College, Davangere	29-09-2012

2011 - 2012	10	Workshop on Power System Simulation Using FACTS Controllers	Dr K. Shanmukha Sundar, Proff & HOD, EEE Dept, Dayananda Sagar College of Engg, Bangalore	20-04- 2011
	11		Dr B.N Sarkar, Professor, EEE dept, MVJ College of Engg, Bangalore	
2010 - 2011	12	Seminar on Recent developments in operation & maintenance of "Electrical Power Grid"	Ramesh.H AEE, GSCOM, Munirabad	26-10- 2010

25	Seminars/ Conferences/Workshops organized & the source of funding						
	a) National						
	Sl no	Activities	Name of the Short Term Course / Training /FDP Conducted	Funding agency	Amount	Duration Month and year	No of Participants
	NIL						
	b) International						
	Sl no	Activities	Name of the Short Term Course / Training /FDP Conducted	Funding agency	Amount	Duration Month and year	No of Participants
	NIL						

26	Student profile programme/course wise					
	Name of the Course	Academic year	Application Received	Selected Seats		Pass Percentage
				Male	Female	
	BE: (EEE)	2016-2017	Admission through	50	50	Eligibility criterion is
		2015-2016		31	43	

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		Control Systems Lab / Logic design	AC servo Motors Second order system CRO Signal generator Trainer Kits IC tester	
		Relay & High Voltage Lab	50 KVA, AC/70 KVA, DC High Voltage 50 KVA, 50mA-Testing Transformer 70 KV High Voltage Rectifier 70 KV High Voltage Filter 70 KV Resistance Divider Control Panel for AC/DC Tests 100mm Sphear Gap Assembly Rod Gap Apparatus With Electrodes Electrolytic tank with Electrodes, Control panel and Meters 0-6 kV oil test Kit Earthing Rods Over Voltage and under Voltage combined Relay Motor Protection Relay Timer Relay test kit Motor Protection	
		Power Systems & Simulation	Pentium IV Systems 35 no. Laser jet 1010, 1022 2 no. (Printer) Hp Desk jet 3550 1 no. (Printer) Soft ware Mipower (10 user License) Scanner (HP 2400)	
		Analog Electronics Lab / Microcontroller Lab	ALS-DSA-31 MEL 8031/51 Microcontroller Trainer kits 26 CORE CABLE Rs232 Cable Communication Package Battery Backup ALS-SDA-89C61X2 Flash Program Evaluation Board Power supply (5V, 1.5A, 12V, 100mA) ALS-NIFC-01A Stepper motor I/F ALS-NIFC-06A Dual DAC I/F ALS- NIFC-17 Elevator Interface ALS- NIFC-41 Temp. measurement I/F ALS- NIFC-45 LCD & Keyboard I/F ALS- NIFC-46 Multiplexed Display and keypad I/F ALS- NIFC-55 DC Motor I/F Power supply unit Battery Backup for rmp Kit Flat Cable Assembly	

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		RS-232C Cable ALS-NI/C-18 Temp Control Interface ALS-SDA 85N 8085 Kit 8 SPI C Compiler SCS1-9 Licenses CRO Multimeter Signal Generator Regulated Power Supply	1.CC
	Circuit Measurement / Power Electronics Lab	Kelvin's Double bridge Maxwell's Bridge Desauty Bridge Wheat stone Bridge Energy meters Inductor Load Crompton Potentiometer Ratio Error test Kit CRO's Earth Resistance kit Megger Signal Generators CT & PT Phase shifting g Transformer SCR Converter Module 1 ph Converter Firing Unit Series Inverter Power Transistor step up Chopper Power Mosfet Chopper 1 ph Isolation Transformer 1 ph Induction Motor 1 ph Cyclo-converter Power circuit 1 ph Mc Murry Bedford inverter Parallel Bridge Inverter with out firing circuit Parallel Inverter center Tapped Forced commutation steady unit.	
	CAED Lab	Dell systems Colour printer Canon printer	

camaras - every Laboratory
 2.White boards - all laboratory
 Acs : available in Power Systems & Simulation Lab

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31	Number of students receiving financial assistance from college, university, government or other agencies					
	YEAR	Central Government Scholarship for SC/ST (Karnataka)	Fee Concession for OBC students (Karnataka)	Ex-Defence children scholarship	Municipal Scholar	others
	2016-2017	320	220		00	00
	2015-2016	335	171		06	02
	2014-2015	336	227		22	17
	2013-2014	322	145		28	02
	2012-2013	188	460		14	04
	2011-2012	379	261		04	04

32	Details on student enrichment programmers (special lectures / workshops / seminar) with external experts			
	Sl no	Topic	Date	Resource Person with designation
	1	Invited talk on Electrical power utilization & traction	26-09-2013	Dr. Basavaraja Banakara, GITAM, Hyderabad
	2	Invited talk on Power quality improvement	26-09-2013	Dr. C. Venkatesh, SR Engg College, Warangal
	3	Seminar on Introduction to MAT Lab & its applications to power systems	29-09-2012	Dr. Sudharshan Reddy, UBDT College, Davangere
	4	Seminar on Recent developments in operation & maintenance of "Electrical Power Grid"	26-10-2010	Ramesh H/ AEE, GESCOM, Munirabad

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33	Teaching methods adopted to improve student learning
	<p>PTTs, Class room teaching, Assignment, Tutorial class, Remedial class, Seminars.</p> <p>Learning Management System, NPTEL Lectures</p> <ul style="list-style-type: none"> ➤ Identifying similarities and differences. ➤ Summarizing and note-taking. ➤ Reinforcing effort and providing recognition. ➤ Homework and practice. ➤ Cooperative learning. ➤ Setting objectives and providing feedback. ➤ Generating and testing hypotheses. ➤ Questions, cues, and advance organizer. ➤ By providing assignments and having appropriate formats to verify the same. ➤ Providing well equipped laboratories.

34	Participation in Institutional Social Responsibility (ISR) and Extension activities		
	Academic Year 2016-17		
	1	31-05-2017	Awareness Program on solar energy in Haragina Dori village
	Academic Year 2015-16		
	1	7-11-2015	Voluntary Blood Donation Camp @ RYMEC, 260 units of blood donated by staff & students
	2	Sept 2015	Conducted "TEACHERS DAY and ENGINEERS DAY" to enlighten the role of Teacher and Engineer to build a strong Nation. On this occasion organized Tree plantation in RYMEC Campus
	3	24-8-2015	Drawing Competition @ RYMEC, on HIV-AIDS prevention & control by NSS unit in association with DAPCU Ballari
	Academic Year 2014-15		
	1	18-10-2014	Essay writing competition @ RYMEC on HIV-AIDS prevention & control by NSS unit in association with DAPCU Ballari
	2	20-10-2014	Drawing Competition @ RYMEC on HIV-AIDS prevention & control by NSS unit in association with DAPCU Ballari
	3	-----	SWATCH BHARATH ABHIYAAN , Blood donation for poor and disabled people at VIMS, Ballari on need basis by patient side
	Academic Year 2013-14		
	sno	Date	Event
	1	21-09-2013	Voluntary Blood Donation Camp @ RYMEC, 259 units of blood donated by the staff & students of RYMEC
	Academic Year 2012-13		
	sno	Date	Event

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1	5-9-2012	Tree plantation in RYMEC Campus
Academic Year 2011-12		
1	5-11-2011	Voluntary Blood Donation Camp @ RYMEC. 251 units of blood donated by the staff & students of RYMEC
2	1-5-2011	Free Medical Camp at Mundarigi village (12km. from Bellary) more than 350 people were benefited with this camp
35	SWOC analysis of the department and Future plans	
Strengths		
<ol style="list-style-type: none">1. A premier technical institution of this region.2. Under the aegis of V.V.Sangha, which has a positive social image in the region.3. Highly qualified and senior faculty from prestigious institutions.4. Faculty development program conducted each semester by the dept.5. Strong presence of alumni in industry at national level and international as well.6. There is good employability for the passing out students in EEE stream.7. As Ballari region is becoming a steel industry hub, more students opt EEE branch.8. Effective student monitoring system.		
Weakness		
<ol style="list-style-type: none">1. Long term planning to achieve the goals with suitable infrastructure.2. Interdisciplinary interaction with other departments/institutions.3. Quality facilities.4. Sponsored/non-sponsored research projects.5. Poor communication skills, lack of aptitude skills and problem solving skills in students.6. Students are not trained according to the work requirements of MNCs.7. Lack of extracurricular activities spread round the year.8. Poor active participation in professional societies		
Opportunity		
<ol style="list-style-type: none">1. Presence of world class organizations [DRDO, HAL, NAL, BHEL, ISRO, IISC, IIM etc] and presence of world renowned multinational companies in Karnataka in the field of electrical and electronics engineering [ABB, TI, Intel, Honeywell etc] can provide the opportunity for internships and employment2. Visit to industries and companies to make students familiarize with work environment.3. More guest lectures by experts from industry and academia.4. Consultancy work in industrial Electrical installations and commissioning can be started.5. Innovation cell and Entrepreneurship cell to drive the students towards innovation and		

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	<p>new ventures.</p> <p>6. Central & state government various schemes for development of renewable energy source [solar, wind]</p> <p>7. Faculties doing research can provide the opportunity for the students to take up in-house project development.</p>
	Challenges
	<ol style="list-style-type: none">1. Declining quality of students, taking admission to engineering. Admission of CET poor rank students has a negative impact on the perception about EEE.2. Encountering difficulties in maintaining the top position due to increased competition.3. Emergence of new institute/department of same kind in the vicinity.4. Narrow focus on subject about professional ethics and values in the curriculum.

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DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

Evaluative Report of the department

1.	Name of the department	COMPUTER SCIENCE AND ENGINEERING
2.	Year of Establishment	1987
3.	Names of Programmes / Courses offered (UG, PG, M.Phil., Ph.D., Integrated Masters, Integrated Ph.D., etc.)	<ul style="list-style-type: none">• COMPUTER SCIENCE AND ENGINEERING – UG(BE)• COMPUTER SCIENCE AND ENGINEERING-PG(MTECH)
4.	Names of Interdisciplinary courses and the departments/units involved.	<ul style="list-style-type: none">• DEPARTMENT OF MATHEMATICS(MATHS FOR 1ST AND 2ND YEAR)• DEPARTMENT OF PHYSICS(PHYSICS FOR 1ST YEAR)• DEPARTMENT OF CHEMISTRY(CHEMISTRY FOR 1ST YEAR)• DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGG(BASIC ELECTRICAL FOR 1ST YEAR)• DEPARTMENT OF MECHANICAL ENGG(EME,CAD AND WORK SHOP FOR 1ST YEAR)• DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGG(BASIC ELECTRONICS FOR 1ST YEAR)• DEPARTMENT OF CIVIL ENGG(ELEMENTS OF CIVIL ENGG.AND ENVIRONMENTAL FOR 1ST YEAR)
5.	Annual/ semester/choice based credit system (programme wise)	<ul style="list-style-type: none">• 2010 – 2014 BATCH SEMESTER WISE• 2015- 1ST YEAR CBSC SYSTEM.
6.	Participation of the department in the courses offered by other departments	CIP
7.	Courses in collaboration with other universities, industries, foreign institutions, etc.	NIL

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8	Details of courses/programmes discontinued (if any) with reasons	NIL
9	Number of Teaching posts	31

	Sanctioned	Filled
Professors	3	4
Associate Professors	7	5
Asst. Professors	25	22

10	Faculty profile with name, qualification, designation, specialization, (D.Sc./D.Lit. /Ph.D. / M. Phil. etc.,)				
Name	Qualification	Designation	Specialization	No. of Years of Experience	No. of Ph.D. Students guided for the last 4 years
Dr.T Hanumantha Reddy	Ph.D	Prof & HOD	Image Processing	22	
Dr.H.Girisha	Ph.D	Prof.	Image Processing	18	
Dr.Sreepathi.B	Ph.D	Prof.	Image Processing 04-06-2001	18	
Dr. VeeraGangadharra Swamy TM	Ph.D	Prof.	Web Mining	21	
Dr. Anuradha.S.G	Ph.D	Assoc.Prof	Computer Network Engineering	10.11	
D.Sai Madhavi	M.S(Ph.D)	Assoc. Prof	Software Systems	20	
Nagaveni B.Hirader	M.Tech(Ph.D)	Assoc. Prof	Computer Science & Engineering	18	
J.Nagesh Babu	M.Tech(Ph.D)	Assoc.Prof	Computer Science &	22	

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Sapna B. Kulkarni	M.Tech(Ph.D)	Assoc. Prof	Engineering Digital Electronics and Communication	19	
Kavitha Juliet	M.Tech	Asst. Prof	Computer Science & Engineering	15	
D.V.Swetha Ramana	M.Tech	Asst.Prof	Computer Science & Engineering	13	
R.P.Rajeshwari	M.Tech	Asst.Prof	Computer Science & Engineering	14	
H.Chidananda	M.Tech(Ph.D)	Asst.Prof	Computer Network Engineering	18	
Aparna.K.S	M.Tech	Asst.Prof	Computer Network Engineering	13	
Sumitha.S	M.Tech	Asst.Prof	Computer Science & Engineering	14	
V.Shiv Kumar	M.Tech(Ph.D)	Asst.Prof	Computer Network Engineering	15.5	
K.Suresh	M.Tech(Ph.D)	Asst.Prof	Computer Science & Engineering	17	
Raghu Kumar K.S	M.Tech(Ph.D)	Asst.Prof	Computer Network Engineering	12.4	
Vani.N	M.Tech(Ph.D)	Asst.Prof	Computer Network Engineering	6	
K.M.Shivaprasa d	M.Tech(Ph.D)	Asst.Prof	Computer Cognition Technology	7.6	
Naveen Kumar B	M.Tech	Asst.Prof	Computer Science & Engineering	7.5	
Sarvar Begum	M.Tech	Asst.Prof	Computer Science & Engineering	7.11	
K.Lingaraju	M.Tech(Ph.D)	Asst.Prof	Computer Network Engineering	4.8	
B.Veeresh Gowda	M.Tech	Asst.Prof	Computer Science &	5	

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			Engineering		
Sreedevi Mallipati	M.Tech	Asst.Prof	Computer Science & Engineering	7.5	
Roshan D	M.Tech.(Phd)	Asst.Prof	Computer Science & Engineering	5.5	
M.Nagaraj	M.Tech	Asst.Prof	Computer Science & Engineering	9	
Puneeth Gf	M.Tech(Ph.D)	Asst.Prof	Computer Science & Engineering	3.3	
Vinatha Prashanth	M.Tech	Asst.Prof	Computer Network Engineering	5	
Sampath Kumar R	M.Tech	Asst.Prof	Computer Network Engineering	4.5	
Pampathi B M	M.Tech(Ph.D)	Asst.Prof	Computer Science & Engineering	6.5	

11	List of senior visiting faculty		
S.No	Name of Visiting Faculty	Qualification	Experience
1	Khaja Mouinuddin	B.E.M.S	19
2	D Sai Natarajn	B.E (Mech)	18
3	Mr. Nagendra Kumar	B.E(ECE)	18

12	Percentage of lectures delivered and practical classes handled(programme wise)by temporary faculty
	6.44%

13. Student-Teacher Ratio (programme wise)					
Student-Teacher ratio Programme wise has been mentioned in the table below:					
Sl no	Programme	Year	No of students	No of teachers	Student: teacher ratio
1		2017-2018	432	28	15:1

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Sl no	Year	No of students	No of teachers	Student teacher ratio
2	2016-2017	432	30	14:1
3	2015-2016	433	30	14:1
4	2014-2015	432	29	15:1
5	2013-2014	432	25	17:1
6	2012-2013	432	26	17:1
7	2011-2012	432	23	19:1

Sl no	Programme	Year	No of students	No of teachers	Student teacher ratio
1	POST GRADUATE MTECH (CSE)	2017-2018	18	03	6:1
2		2016-2017	18	03	6:1
3		2015-2016	18	03	6:1
4		2014-2015	18	03	6:1
5		2013-2014	18	03	6:1
6		2012-2013	18	03	6:1
7		2011-2012	18	03	6:1

14	Number of academic support staff (technical) and administrative staff; sanctioned and filled	The below given table gives the cadre wise structure of academic support		
		Sanctioned	Filled	
	Administrative staff	NIL		
	Lab Instructive Programmer	6		3
	Assistants	8		5

Sl.No	Faculty Name	Qualification
1	Dr. T. Harinamtha Reddy	Ph.D
2	Dr.H.Girisha	Ph.D
3	Dr.Sreepathi.B	Ph.D
4	Dr.Veerasinghadaswamy T.M	Ph.D
5	Dr.Arunadha.S.G	Ph.D
6	D.Sai Madhavi	M.Sc(Ph.D)
7	Nagaveni B.Bhadrar	M.Tech, (Ph.D)
8	J.Nagesh Babu	M.Tech(Ph.D)
9	Sapna B.Kulkarni	M.Tech(Ph.D)
10	Kaushik Jyoti	M.Tech(Ph.D)
11	D.V.Sowetha Ramesh	M.Tech
12	R.P.Rajeshwari	M.Tech
13	H.Chidananda	M.Tech(Ph.D)
14	Aparna.K.S	M.Tech
15	Saundhya.S	M.Tech
16	V.Shiv Kumar	M.Tech(Ph.D)
17	K.Suresh	M.Tech(Ph.D)
18	Raghu Kumar.K.S	M.Tech(Ph.D)
19	Vaas.N	M.Tech, (Ph.D)
20	K.M.Srinivasarad	M.Tech, (Ph.D)
21	Navaneet Kumar.B	M.Tech
22	Survar Begum	M.Tech
23	K.Lingam	M.Tech (Ph.D)
24	B.Veeresh Gouda	M.Tech

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25	Sreedevi Maalipatil	M.Tech
26	Rohan.D	M.Tech(Ph.D)
27	M.Nagura	M.Tech
28	Pureeth G	M.Tech.(Ph.D)
29	Vinutha Prashanth	M.Tech
30	Sampath Kumar	M.Tech
31	Pampapathi B.M	M.Tech.(Ph.D)

Sl. No.	Title of the project	National / International	Funding agency	Principal investigator/ Co-investigator	Duration of the project	Amount sanctioned
1	Nil					

17	Departmental projects funded by DST - FIST; UGC, DRT, ICSSR, etc. and total Grants Received					
2016-17						
PROJECT TITLE	STUDENT NAME	USN	GUIDE	FUNDING BY	AMOUNT	
DIGITIZATION OF GOVERNMENT SCHEMES FOR DISABLED	MARIA STEPH	2VC11C8041	K.S.APARNA	KSCSE, DDC BENGALURU	RS. 5000.00	
	CHITAN KUMAR B	2VC11C8015				
	M NAGA ANUSHA	2VC11C8042				
	M RAGHUNATH BHOPAL	2VC11C8043				

GOVERNMENT ASSISTED PROJECTS						
SL	GUIDE NAME	USN	NAME	TITLE	ASSISTED BY	DEVELOPED FOR
1	DR.T. HANUMANTHA REDDY	2VC11C8049	MUDASSAR	BLOOD BANK MANAGEMENT SYSTEM	DEPARTMENT OF INDUSTRIES AND COMMERCE, BALLARI	DISTRICT HOSPITAL, BELLARY, BALLARI
		2VC11C8049	MAHAMAD			
		2VC11C8039	LAKSHMI LAL			
		2VC11C8036	P.S.PUREETH			
2	SREEDHEVI MALIPATIL	2VC11C8061	POOJA DIGGAVI	TRAINEE PROFILE	DEPARTMENT OF INDUSTRIES AND COMMERCE, BALLARI	DISTRICT INDUSTRIES CENTRE, BALLARI
		2VC11C8062	POOJA POLICE			
		2VC11C8057	PAZMAKK			
		2VC11C8057	KRUPA B			
3	KAVITHA J.S.MT	2VC11C8011	BHAVANA VEL	E-PRK	DEPARTMENT OF INDUSTRIES AND COMMERCE, BALLARI	DISTRICT HOSPITAL, BELLARY, BALLARI
		2VC11C8002	AKHIL B			
		2VC11C8006	ANUSHA M			
		2VC11C8004	ALPYA SIDDHQU			
4	K.S.APARNA	2VC11C8045	MARIA STEPH	DIGITIZATION OF GOVERNMENT SCHEMES FOR DISABLED	DEPARTMENT OF INDUSTRIES AND COMMERCE, BALLARI	DEPARTMENT OF IMPROVEMENT OF DIFFERENTLY ABLED AND SENIOR CITIZENS, BALLARI
		2VC11C8015	CHITAN			
		2VC11C8042	M NAGA			
		2VC11C8042	M RAGHUNATH BHOPAL			
5	J NAGESH BABU	2VC11C8038	KUSHAL	OPL INTRUDERS	DEPARTMENT OF INDUSTRIES AND COMMERCE, BALLARI	FOOD, CIVIL SUPPLIES AND CONSUMER AFFAIRS
		2VC11C8039	PAVANKUMAR			
		2VC11C8040	LAXMIBAU			

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	3VC12C5092	SUNATHIN		DEPARTMENT, BANGALURU
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2015-16					
PROJECT TITLE	STUDENT NAME	USN	GUIDE	FUNDED BY	AMOUNT
INDUSTRY AND COMMERCE ASSIST COMMUNE (ICAC)	PRITANKA V	3VC12C5064	PUNEETH G J	KSCST, IISC BENGALURU	RS. 3000.00
	SHALINI C	3VC12C5070			
	AKSHITHA K	3VC12C5006			
	AYESHA SHAIR AFSHREEN	3VC12C5013			
FINANCIAL ASSISTANCE FOR ENTREPRENEURS	SALANA S	3VC12C5072	DR. H. GIRISHA	KSCST, IISC BENGALURU	RS. 3000.00
	SHRUTHI K	3VC12C5078			
	SUSHAMA M	3VC12C5090			
	RAMYA A	3VC12C5068			
E-TAX EXEMPTION	SYED YAKUB HUSSAIN	3VC12C5093	K. SURESH	KSCST, IISC BENGALURU	RS. 3000.00
	ASHFAQ UR REHMAN	3VC12C5108			
	VINOD H	3VC12C5104			
	SHIVARAM A	3VC12C5082			
CELL PHONE OPERATED MOBILE BUS USING MICROCONTROLLER	RAMYAKHISE G R	3VC12C5049	SARVAB HEGUM	KSCST, IISC BENGALURU	RS. 3000.00
	SIRWETHA T S	3VC12C5080			
	VASANTHI K	3VC12C5101			
ANDROID AND BLUETOOTH BASED VOICE CONTROLLED WIRELESS SMART HOME SYSTEM	BOUMYASHREE	3VC12C5081	KAVITHA J	KSCST, IISC BENGALURU	RS. 4000.00
	JUSWANA	3VC12C5076			
	K.SANJANA CHODDARY	3VC12C5074			

PROJECT TITLE	STUDENT NAME	USN	GUIDE	ASSISTED BY/DEVELOPED FOR
INDUSTRY AND COMMERCE ASSIST COMMUNE (ICAC)	PRITANKA V	3VC12C5064	PUNEETH G J	DEPARTMENT OF INDUSTRIES AND COMMERCE, BALLARI
	SHALINI C	3VC12C5070		
	AKSHITHA K	3VC12C5006		
	AYESHA SHAIR AFSHREEN	3VC12C5013		
FINANCIAL ASSISTANCE FOR ENTREPRENEURS	SALANA S	3VC12C5072	H. GIRISHA	DEPARTMENT OF INDUSTRIES AND COMMERCE, BALLARI
	SHRUTHI K	3VC12C5078		
	SUSHAMA M	3VC12C5090		
	RAMYA A	3VC12C5068		
E-TAX EXEMPTION	SYED YAKUB HUSSAIN	3VC12C5093	SURESH	DEPARTMENT OF INDUSTRIES AND COMMERCE, BALLARI
	ASHFAQ UR REHMAN	3VC12C5108		
	VINOD H	3VC12C5104		
	SHIVARAM A	3VC12C5082		

SELECTED FOR	STUDENT NAME	USN	GUIDE	PROJECT TITLE
SRISHTI ABVP, BENGALURU	RACHEL EVANGELINE CHRISTIAN	3VC12C5046	SKEEDHEVI	ALIVE HUMAN BEING DETECTION IN WAR FIELD USING MTR
	SINITHU RAO A H	3VC12C5084		

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	TULASIM	3VC12CS007		SENSOR AND WIRELESS TECHNOLOGY
SRISHTI, ABVP, BENGALURU	INDIRA S K	3VC12CS010	SWETHA RAMANA	AUTOMATED STUDENT PROJECT MANAGEMENT
	IRIADYA H S	3VC12CS014		
	N TARUN KUMAR REDDY	3VC12CS049		
	KRISHNA	3VC12CS041		
SRISHTI, ABVP, BENGALURU	SHARON M	3VC12CS078	NAGAVENI BIRADAR	TOUCH SCREEN BASED NURSE/ATTENDANT CALLING SYSTEM FOR PHYSICALLY IMPAIRED
	VAISHNAVI K	3VC12CS100		
	SHAINAZ SULTANA	3VC12CS407		
	SARASWATHI HAVALKOD	3VC12CS410		
SRISHTI, ABVP, BENGALURU	MEGHANA M	3VC12CS047	R.P. RAJESWARA	RAILWAY ROUTE OPTIMIZATION
	CHALLA NANDINI	3VC12CS019		
	POORNIMA	3VC12CS059		
	ANUSHA P	3VC12CS018		
SRISHTI, ABVP, BENGALURU	JYOTHI P	3VC12CS032	SUNITHA S	AUTOMATION OF EXAMINATION CELL
	PREETI KANNUR	3VC12CS063		
	PRIVANKA N S	3VC12CS062		
	RAMESH ANSURI	3VC12CS067		

18 Research Centre /facility recognized by the University

The Department of Computer science and Engineering is recognized as VTU RESEARCH CENTRE in the year 2006. Since then the research facility is available for research scholars to carry out research in their specific area and publish papers in reputed refereed journals and International conferences.

The following faculty members are pursuing Ph.D under the Research Center.

Faculty name	Research scholars	Research topic	University/Year
Dr.T. Hanumantha Reddy	H.Chidananda	Human Activity Recognition	VTU,Belagavi,2012
	Mahesh U Nagara	Face recognition using soft computing	VTU,Belagavi,2012
	J.NageshBabu	Novel Soft computing techniques for opinion mining	VTU,Belagavi,2014
	Shiva Prasad	Efficient pattern discovery using text mining	VTU,Belagavi,2013
	Roshan D	Soft Computing Techniques for Reasoning from uncertain data in Big data analytics	VTU,Belagavi,2015
Dr. Girisha H	Nagaveni B.Birader	An automatic Pests Detection &	VTU,Belagavi,2017

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		Classification System for green House Crops	
Dr.Sreepathi.H	Punith G J	A novel approach to evaluate a person under alcohol influence based on IRIS dilation employing computer vision techniques	VTU,Belagavi,2017
	Suresh K	Secure Routing in IP based Internet of things	VTU,Belagavi,2017
Dr.VeeragangadharaSwamy T.M	Vani N	A novel approach for predicting User Behaviour Based on Web server Log Files in a Web Usage Mining	VTU,Belagavi,2017

19 Publications

Book Publication by Faculty

Book Title:-Programming with C and Data Structures

Publisher:-Invincible Publisher Gurgaon New Dheli.

Author Name:-ShivaPrasad K.M

ISBN Nos:-978-90-86148-31-5

Published year:-2017

Consolidated Faculty publications

	2012-13		2013-14		2014-15		2015-16		2016-17	
Faculty publications	International/National Journal	International/National Conference	International/National Journal	International/National Conference	International/National Journal	International/National Conference	International/National Journal	International/National Conference	International/National Journal	International/National Conference
	6	13	23	4	26	08	41	12	31	17
Total International/National Journal										126
Total International/National Conference										54
Total										180

Consolidated count of Faculty publications 2016-2017:

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Faculty publications	International/National Journal	International/National Conference	Books/book Chapter
Dr.T.Hanumantha Reddy	2		
Dr.Veeragangadharaswamy T.M	1	1	
Dr.Anuradha.S.G		4	
D.Sai Madhavi	5		
Nagaveni B. Biradar	3	1	
J Nagesh Babu		2	
Sapna Kulkarni	1	6	
Kavitha J	4		
D.V.Swetha Ramana	1		
Rajeswari R P	2		
Chidananda H	1		
Raghu Kumar K.S	1		
Shiv Kumar	1		
Samitha S	2	1	
Shiv Prasad KM	3		1
Vani N	1		
Lingaraj K	2	1	
Sreedevi Maalipatil	1		
Puneeth G.J	1		
Total	31	17	

Consolidated count of Faculty publications 2015-2016:

Faculty publications	International/National Journal	International/National Conference	Books/book Chapter
Dr.T.Hanumantha Reddy	2	3	
Dr. Girisha H	1		
D.Sai Madhavi	1		
Nagaveni B. Biradar	3		
J Nagesh Babu	1		
Sapna Kulkarni	3	2	
Kavitha J	2		
D.V.Swetha Ramana	1		
Rajeswari R P	1		
Chidananda H	1		
Aparna K.S	3		
Anuradha.S.G	7	2	
Shiv Kumar	1		
Shiv Prasad KM		3	
Vani N	1		
Lingaraj K	1	2	
Sarvar Begum	1		
Sreedevi Maalipatil	2		
Naveen Kumar B	3		

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Pampapathi B M	3		
Nagaraj M	2		
Puneeth G J	1		
Total	41	12	

Consolidated count of Faculty publications 2014-2015:

Faculty publications	International/National Journal	International/National Conference	Books/book Chapter
Dr. THanumantha Reddy	1	2	
Dr. Girisha H		1	
D.SaiMadhavi	1	1	
Nagaveni B. Biradar	1	1	
J NageshBabu	1		
SapnaKulkarni	3		
Kavitha J	1		
D.V.SwethaRamana	1		
Rajeswari R P	1	1	
Chidananda H	3	1	
Aparna K.S	1		
Anuradha S.G	3		
ShivKumar	1		
Shiv Prasad KM			
Vani N	2		
Lingaraj K	1	1	
Sarvar Begum			
Roshan D	2		
SreedeviMaalipatil	2		
Naveen Kumar B			
Pampapathi B M			
Nagaraj M			
Puneeth	1		
total	26	8	

Consolidated count of Faculty publications 2013-14:

Faculty publications	International/National Journal	International/National Conference	Books/book Chapter
Dr. THanumantha Reddy			
Dr. Girisha H	1		
D.SaiMadhavi	1	1	
Nagaveni B. Biradar	2	1	
J NageshBabu	1		
SapnaKulkarni			
Kavitha J			

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D.V.SwethaRamana	2		
Rajeswari R P	1		
Chidananda H	1		
Aparna K.S	1		
Anuradha S.G	2	1	
ShivKumar	1		
Shiv Prasad KM			
Vani N	1		
Naveen kumar.B	1		
Lingaraj K	1	2	
Sarvar Begum	2		
Roshan D			
SreedeviMaalipatil			
Manjula K S	2		
AfsarBaig	1		
Nagaraj.M	1		
Total	22	3	

Consolidated count of Faculty publications 2012-2013:

Faculty publications	International/National Journal	International/National Conference	Books/book Chapter
Dr. THanumantha Reddy			
Dr. Girisha H			
D.SaiMadhavi		2	
Nagaveni H. Biradar	1	2	
J NageshBabu	1		
SapnaKulkarni			
Kavitha.I			
D.V.SwethaRamana			
Rajeswari R P	1		
Chidananda H			
Aparna K.S	1		
Anuradha S.G		2	
ShivKumar		2	
Shiv Prasad KM			
Vani N	2		
Lingaraj K		5	
Sarvar Begum			
Roshan D			
SreedeviMaalipatil			
Manjula K S			
AfsarBaig			
Total	6	13	

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Sl no	Consultancy work	year	Amount generated
1	Third Party inspection of computers in Town Panchayat Tekkalakote	2016-2017	45797
2	Third Party inspection of computers St.John's PU college,Ballari	2015-2016	48788

21	Faculty as members in National Committees	
Sl no	Faculty name	Committee member
1	Dr.T Hanumantha Reddy	CSI,ISTE
2	Dr.H.Girisha	CSI,ISTE
3	Dr.Veeragangadhar Swamy T.M	ISTE
4	Dr.Arradha S.G	ISTE
5	D.Sai Madhavi	ISTE
6	Nagaveni B.Birader	ISTE
7	Sapna B.Kulkarni	ISTE,CSI
8	Kavitha Juliet	ISTE
9	D.V.Swertha Ramana	ISTE
10	R.P.Rajeshwari	ISTE
11	H.Chidananda	ISTE
12	Aparna K.S	ISTE
13	R. Suresh	ISTE
14	K.M.Shivaprasad	ISTE
15	Naveen Kumar .B	ISTE
16	B.Veeresh Gouda	ISTE
17	Sreedevi Maalipatil	ISTE
18	Roshan D	ISTE
19	M.Nagaraj	ISTE
20	Vinutha Prashanth	ISTE
21	Sampath Kumar R	ISTE
22	Painpapathi B M	ISTE
23	Puneeth G.j	ISTE
24	Lingaraj K	ISTE

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22	Student projects				
	Sl no	Programme	Year	% of projects done inside the Institute (a)	% of projects done outside Institute (b)
	1	Under Graduate BE (CSE)	2016-2017	84%	16%
	2		2015-2016	70%	30%
	3		2014-2015	100%	-
	4		2013-2014	100%	-
	5		2012-2013	100%	-
	6		2011-2012	100%	-
		Post Graduate M.Tech(CSE)	2016-2017		100%
	1		2015-2016		100%
	2		2014-2015		100%
	3		2013-2014		100%
	4		2012-2013		-
	5		2011-2012		-

23	Awards / Recognitions received by faculty and students				
	Following Students received awards/recognitions in various events.				
Year	Name of the student	Date	Event Name	Venue	Award
2016-17	CHANDRAKALA		INDO- THAILAND CHAMPIONSHIP	BANGKOK, THAILAND	WINNERS AT THROW BALL TOURNAMENT
	MARIA STEFFI CHETAN KUMAR B M NAGA ANUSHA M RAGHUNATH BHOPAL	2016-17	DIGITIZATION OF GOVERNMENT SCHEMES FOR DISABLED	BENGALURU	FUNDED BY KSCST, IISC BENGALURU
	MUDASSIR AHMAD MAHAMAD RIZWAN LAKSHMI LAL P.S.PREETHI	2016-17	BLOOD BANK MANAGEMENT SYSTEM	BALLARI	DEVELOPED FOR DISTRICT HOSPITAL BELLARY, BALLARI
	POOJA DIGGAVI POOJA POLICE PATIL PADMA S.K KRUPA R	2016-17	TRAINEE PROFILE	BALLARI	DEVELOPED FOR DISTRICT HOSPITAL BELLARY, BALLARI
	BHAVANA VELDURTHI AKHIL B ANUSHA M ALIYA SIDDIQUA	2016-17	E-PRA	BALLARI	DEVELOPED FOR DISTRICT HOSPITAL BELLARY, BALLARI
	MARIA STEFFI CHETAN KUMAR B M NAGA ANUSHA M RAGHUNATH BHOPAL	2016-17	DIGITIZATION OF GOVERNMENT SCHEMES FOR DISABLED	BALLARI	DEVELOPED FOR EMPOWERMENT OF DIFFERENTLY ABLED AND SENIOR CITIZENS, BALLARI

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	KUSHAL KUMAR NAIDU PAVANKUMAR T LAXMI RAMPRASAD A SUMATHI N	2016-17	BPL INTRUDERS	BALLARI	DEVELOPED FOR FOOD, CIVIL SUPPLIES AND CONSUMER AFFAIRS DEPARTMENT, BALLARI
	NARESH HABI P SRINIVAS H KRASHNA TULASI RAGHAVENDRA	MAY 2017	LOCATION BASED PROFILE MANAGER		INTERNATIONAL JOURNAL OF SCIENCE AND RESEARCH (ISR) ISSN(ONLINE): 2319- 7064 IMPACT FACTOR: 6.39
	BINDU SHUKLA DEEPTI P GOOWTHAMI VITTAL S MANI DEEPIKA J M	MAY 10 2017	IOT BASED CRACK DETECTION AND PROTECTION FOR DAMS	SURYA ENGG COLLEGE ERODE	INTERNATIONAL CONFERENCE ON COMPUTING METHODOLOGIES & COMMUNICATION (ICCMC2017)
	SUSHMITHA RAJ A SWETHA D TRIVENT C TRIVEDI T H M	18,19 MAY 2017	SMART COMMUNION FOR ACADEMIC SYSTEM USING ANDROID	SAIRAM ENGG COLLEGE ANEKAL	INTERNATIONAL CONFERENCE ON APPLIED SCIENCE ENGINEERING & TECHNOLOGY (ICASET- 17)
	RAGHAVA SOWRYA V TANUJA C JYOTHI R MEKHA S NAIR	17,18 MARCH 2017	SMART CANE FOR THE VISUALLY IMPAIRED USING ARDUINO	NIE MYSURU	INTERNATIONAL SYMPOSIUM ON CLOUD COMPUTING & DATA ANALYSIS (ISCCDA-17) BEST TECHNICAL PAPER
	RAJESHWARI J SOUJANYA K SHWETHA P VIDYASHEEREE Y B	3,4 MAY 2017	ONLINE MENTORING SYSTEM	SJCT, CHIKARA ELAPOR	3RD INTERNATIONAL CONFERENCE ON RECENT TRENDS IN COMPUTER SCIENCE & ENGINEERING MANTHAN-2017
	SUCHITRA M VARSHAKURPAD PRIYADARSHAN L C PRIYANKA C SWETHA S MOHAN KUMAR		NATIONAL DISASTER MITIGATION PLAN (DROUGHT, FLOODS AND COLD WAVE/FROST)		SMART INDIA HACKATHON'17
	ANUSHA B K SREECHANDANA AISWARYA K SNEHA T ANTHA A E.DURGA BHAVANI		EASY NAVIGATION SYSTEM FOR VISUALLY IMPAIRED PERSONS		SMART INDIA HACKATHON'17
2015- 2016	1)SOWMYA Y C 2)TANUJA C 3)MAHALAKSHMI 4)SUPRIYA	18TH- 19TH APRIL		RJIT COLLEGE DODBA ELAPOR A	SECURED RUNNER-UP

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1)SOWMYA Y.C 2)TANUJA C 3)MAHALAKSHMI 4) SUPRIYA	17TH TO 19TH APRIL		RLJIT DODDA BALAPU RA	VTU HOCKEY WOMEN TEAM RUNNERS SINGLE ZONE
	22ND TO 26TH		RLJIT DODDA BALAPU RA	VTU BALL BADMINTON MEN TEM RUNNERS
	04/03/201 5 TO 08/03/201 5		RYMEC BALLAR I	VTU KALBURGI ZONE CRICKET MEN TEM WINNERS
	19/03/201 5 TO 20/03/ 2015		RYMEC BALLAR I	VTU KALBURGI ZONE HAND BALL (MEN) TEM WINNERS
	08/09/201 5 TO 09/09/ 2015		HLIE VJAYA PURA	VTU KALBURGI ZONE THROW BALL (WOMEN) TEM WINNERS
	ON 22/08/ 2015 TO 23/08/201 5 AT		RYMEC BALLAR I	VTU KALBURGI ZONE SHUTTLE BADMINTON (WOMEN) TEM WINNERS
	ON 22/08/ 2015 TO 23/08/201 5 AT	VTU KALBURGI ZONE SHUTTLE BADMINTON (MEN & WOMEN) TOURNAMENT	RYMEC BALLAR I	
PRIYANKA.V SHALINI.C AKSHITHA.K AYESHA SHAIK AFSHEEN		INDUSTRY AND COMMERCE ASSENT COMMUNE (ICAC)		SELECTED AND ASSISTED BY DEPARTMENT OF INDUSTRIES AND COMMERCE, GOVERNMENT OF KARNATAKA
SAHANA.S SHANTHI.K SUSHMA.M RAMYA.A		E-FINANCIAL ASSITANCE FOR ENTREPRENEURS		SELECTED AND ASSISTED BY DEPARTMENT OF INDUSTRIES AND COMMERCE, GOVERNMENT OF KARNATAKA
SYED YAKUB HUSSAIN ASHFAQ U/R REHMAN		E-TAX EXCEMPTION		SELECTED AND ASSISTED BY DEPARTMENT OF

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VINOD.H SHIVARAMA				INDUSTRIES AND COMMERCE, GOVERNMENT OF KARNATAKA PROJECTS
PRIYANKA V SHALINI C AKSHITHA K AYESHA SHAIK APRHEEN		INDUSTRY AND COMMERCE ASSENT COMMUNE (ICAC)		SANCTIONED UNDER 39TH SERIES OF STUDENT PROJECT PROGRAMME- 2015-16
SAHANA.S SHANTHI.K SUSIDMA.M RAMYA.A		E-FINANCIAL ASSTANCE FOR ENTERPRENEURS		PROJECTS SANCTIONED UNDER 39TH SERIES OF STUDENT PROJECT PROGRAMME- 2015-16
SYED YAKUB HUSSAIN ASHFAQ UR REHMAN VINOD.H SHIVARAMA		E-TAX EXCEMPTION		PROJECTS SANCTIONED UNDER 39TH SERIES OF STUDENT PROJECT PROGRAMME- 2015-16
RAMYASHREE.G.R SHWETHA.T.S VASANTHI.K		CELL PHONE OPERATED MOBILE BUG USING MICROCONTROLE R		PROJECTS SANCTIONED UNDER 39TH SERIES OF STUDENT PROJECT PROGRAMME- 2015-16
SOUMYASHREE RIZWANA K.SANJANA CHOUDARY		ANDROID AND BLUETOOTH BASED VOICE CONTROLLED WIRELESS SMART HOME SYSTEM		PROJECTS SANCTIONED UNDER 39TH SERIES OF STUDENT PROJECT PROGRAMME- 2015-16
RACHEL EVANGELINE CHRISTIAN SINDHU KANI A.H TILASIM		ALIVE HUMAN BEING DETECTION IN WAR FIELD USING PIR SENSOR AND WIRELESS TECHNOLOGY		SELECTED FOR SRISHTI EVENT
INDIRA S.K BHAGYA.H.S N.TARUN KUMAR REDDY KRISHNA		AUTOMATED STUDENT PROJECT MANAGEMENT		SELECTED FOR SRISHTI EVENT
SHARON.M VAISHNAVLK SHAINAZ SULTANA SARASWATE.C.HAVAL KOD		TOUCH SCREEN BASED NURSE/ATTENDAN T CALLING SYSTEM FOR PHYSICALLY IMPAIRED		SELECTED FOR SRISHTI EVENT
MEGHA.M CHALLA NANDINI POORNIMA ANUSHA.P		RAILWAY ROUTE OPTIMIZATION		SELECTED FOR SRISHTI EVENT
JYOTHI.P PREETHI KANNUR PRIYANKA.N.S RAJESWARI ANSURI		AUTOMATION OF EXAMINATION CELL		SELECTED FOR SRISHTI EVENT
AKSHITHA.S KOTHPALLI JYOTHI	7-9 APRIL	INTERNATIONAL CONFERENCE ON		PRESENTED PAPER "AUTOMATED FACE

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	GUDIPATI ASHALATHA KAVYA	2016	ADVANCES IN COMPUTING LOGIC, TECHNOLOGY AND SCIENCES-2016, ANANTHAPURAM, ANDHRA PRADESH, INDIA		DETECTION & RECOGNITION FOR DETECTING IMPERSONATION OF CANDIDATE IN EXAMINATION SYSTEM*
2014-2015	SOWMYA Y.C TANUJA C ASHWINI M	4TH-5TH APRIL	INTER COLLEGIATE INTER ZONE TOURNAMENT	ROMYS ORE	DECLARED AS WINNERS 1)SOWMYA Y.C 2)TANUJA
2013-14	SOWMYA Y.C TANUJA C	19TH NOVEMBER	INTER UNIVERSITY HOCKEY TOURNAMENT FOR WOMEN	MANGALORE UNIVERSITY MANGALORE	
Following Staff received awards/recognitions in various events					
Year	Name of the staff	Date	Event Name	Venue	Award
2017-18	Dr. VeeraGangadhara Swamy TM				BEST FACULTY
	CHIDANANDA H	17,18 AUG 2017	ICCUHEA-2017	PCCE, PUNE	BEST PAPER AWARD
	LINGARAJ K	2017-18	ICCMC-2018	IEEE	TECHNICAL REVIEWER
2017	DR. S. G. ANURADHA	2017	ICOWT-2017	DSUSE, BENGALURU	NATIONAL ADVISORY COMMITTEE
	SAPNA B KULKARNI	2017	ICOWT-2017	DSUSE, BENGALURU	ORGANIZING COMMITTEE
2016	DR. S. G. ANURADHA	DEC 2017	PHD	INTU, ANANTHAPURAM	DOCTORATE
	APARNA K S	24-9-2016	KALLAYYAJANAVARATHI THULABHARA & SNAGEETHA KARYAKRAMA	SMT. BASAVARAJESWARI KALA BHAVANA, BALLARI	PARTICIPATED BY SINGING DEVOTIONAL SONGS
	DR. T. HANUMANATHA REDDY	4 JAN 2016	OPINION MINING	HLDEAS, VIJAYAPUR	TECHNICAL TALK
2015	DR. T. HANUMANATHA REDDY	12 DEC 2015	RESEARCH TRENDS IN WEB MINING	STJE RANEBENUR	TECHNICAL TALK
	DR. T. HANUMANATHA REDDY	21 OCT 2015	RESEARCH TRENDS IN MACHINE LEARNING	BEC BAGALKOT	TECHNICAL TALK
	DR. T. HANUMANATHA REDDY	12 JAN 2015	STORAGE AREA NETWORKS	STJE RANEBENUR	TECHNICAL TALK

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	DR. H. GIRISHA	JUL 2015	PH.D	MAGADH UNIVER SITY, BODHGA YA	DOCTORATE
	DR. B. SUREPATHI	JUL 2015	PH.D	MAGADH UNIVER SITY, BODHGA YA	DOCTORATE
2013	DR. T. HANUMANTHA KIDDI	28 DEC 2013	RESEARCH TRENDS IN PATTERN ANALYSIS	BLDEAS VIJAYA PUR	TECHNICAL TALK

24 List of eminent academicians and scientists / visitors to the department				
Sl No	Name of the resource Person	Designation	Date of Visit	Purpose of Visit
01	Dr. Anupama Patil	Professor, Department of CSE M.S.Ramiah Institute of Technology Bangalore	11 th & 12 th August 2017	FDP on Outcome based education
02	Mr. Prashanth K	Software Engineer, Xirans Software Solutions Bangalore	3 rd & 4 th August 2017	FDP on IOT
03	Mr. Supreeth Kumar	Software Engineer, Xirans Software Solutions Bangalore	3 rd & 4 th August 2017	FDP on IOT
04	Dr. Subramani	Nodal Officer, NITTE Udupi	8 th & 9 th of August 2016	Workshop on Outcome based education
05	Mr. Santosh HR	Manager TCS Bangalore	18 th August 2016	TCS Pre-Placement talk on "CODEVITA"
06	Prof. Suresh Kumar R	Dept of Mechanical Engineering BMS College of Engineering Bangalore	22 nd & 23 rd December 2016	Two days invited talk on NBA
07	Dr. Basavaraj Anami	Principal KLE Hubli	20 th July 2015	FDP on NBA & Research Methodology
05	Mr. Charles Antony	Senior Trainer RIFT Mysore	16 th July 2015	Seminar on .NET and Frameworks
06	Dr. Satyanarayana Rao	Professor, Hindu Editor	15 th July 2015	Seminar on English Communication Skills
07	Dr. Imran Khan	Professor, King Faisal University Saudi Arabia	14 th July 2015	FDP on Image Processing
08	Dr. Guruprasad	Professor and Head, Department of CSE, BMS	13 th July 2015	FDP on Trends in

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		college of Engineering		Cloud Computing & Big Data Analytics
09	Dr.D.S Guru	Professor Dept of CSE UOM Mysore	2 nd and 3 rd November 2015	Exigent State level Tech Fest & Invited talk on MARS
10	Dr.Mohammed Rafi	Professor & Chairman Department of CSE UBDT Engineering College Davanagere	2 nd & 3 rd November 2015	Guest for Exigent State level Tech
11	Prof. Kumar Swamy V	Assistant Professor Department of Electronics and Communication, KLE Institute of Technology Hubli	20 th December 2015	FDP on NBA Process
12	Dr.K.Chidananda Gowda	Vice Chancellor Kuvempu University Shimoga	27 th April 2015	One day Invited talk on Recent Advances in Agent Technology
13	Mr. E S Chakravarthy	Centre Head TCS Bangalore	20 th February 2015	FDP on Cloud Computing & Big Data Analytics
14	Mr. Sreenivas Ramanujam	Academic Relationship Manager	20 th February 2015	FDP on Cloud Computing & Big Data Analytics
15	Mohammad Ilyas	Manager,IT for Asia Pacific operations at Informatics Corporation, Bangalore	13 th & 14 th September 2013	"TRENDS IN IT"

25. Seminars/Conferences/Workshops organized & the source of funding							
No	Activities	Name of the Short Term Course / Training/FDP Conducted	Funding agency	Amount	Duration Month and year	No of Participants	
A. National							
I	INTELLECTUAL PROPERTY RIGHTS	SHORT TERM -2 DAYS WORKSHOP	VTU	16530	30.11- JAN- 2017	65	
B. International							
-----NIL-----							

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26	Student profile programme/course wise:					
	Name of the Course	Academic year	Application Received	Selected Seats		Pass Percentage
				Male	Female	
	BE: (CSE)	2016-2017	Admission through KEA/ COMED-K	37	81	Eligibility criterion is 40% for SC/ST and 45% for others
		2015-2016		35	82	
		2014-2015		36	79	
		2013-2014		29	82	
	MTech (CSE)	2015-2016	Admission through KEA	3	5	Eligibility criterion is 40% for SC/ST and 45% for others
		2014-2015		5	9	
		2013-2014		8	5	

27. Diversity of Students					
	Name of the Course	year	% of students from the same state	% of students from other States	% of students from abroad
1	Under graduate BE (CSE)	2016-2017	90.50%	09.41%	NIL
2		2015-2016	95.72%	4.27%	
3		2014-2015	95.61%	4.38%	
4		2013-2014	98.19%	1.80%	
5		2012-2013	95.65%	4.35%	
6		2011-2012	95.73%	4.27%	

28	How many students have cleared national and state competitive examinations such as NET, SLET, GATE, Civil services, Defense services, etc.?			
	State level	No of Students	National level	No of Students
	NET		GATE (2014-15)	01
	SLET		Civil services	
			Defense services	

29 Student progression							
Student progression	Percentage against enrolled						
	2016-2017	2015-2016	2015-2014	2013-2014	2012-2013	2011-2012	2010-2011
UG to PG	7	17	18	10	2	7	-
PG to Ph.D	5			2			1
Ph.D to Post Doctoral							

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Employed							
Campus selection	74	31	65	77	30	75	76
Other than campus recruitment		06	50	45	55	40	35
Entrepreneurship/Self-employment	-		1	1	-	-	-

3H	Details of Infrastructural facilities	
A	Library facilities	
	Total no of Volumes	165
	Journal	Total - 12 IACST, ICGT, IJDCSE, IJDMW, IJMCN, IJ NNT, IJ SICS, IJSCSPT, IJSC, IJWNC, JCS, JIT
	Project Report	Maintained
	News Letters	Department maintains Newsletter for every 6 months
	Syllabus	Syllabus copy is maintained in department library
	Question Bank	Maintained in library
	Digital Library	http://192.168.8.4/8080 for English books http://192.168.8.4/8081 for General Books http://192.168.8.4/gdlc1 http://192.168.8.4/gdlc2 http://192.168.8.4/gdlc3 http://192.168.8.4/gdlc4 for Technical Books http://192.168.8.4/npTEL for Technical paper/Books http://192.168.8.4/qg Question papers
	E-journal	Springer, Taylor & Francis, ProQuest, IET, Knimbus
B	Internet facilities for Staff & Students	
	1. Internet facility to staff: <ul style="list-style-type: none"> Internet provider – Airtel and BSNL Available bandwidth – 10Mbps Access speed – 100 Mbps Availability – 10 staff rooms are equipped with computer connected with internet and available in all the 7 labs 	
C	Class rooms with ICT facility	
	1. Classrooms - 10 2. seminar hall- 01 3. Dell tabs - 07 4. Laptops - 04 5. Projectors - 08 6. CC cameras – every classroom 7. Printers-09	

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	8. Scanners-02																						
	9. Plotters-01																						
	10. Black board and White board – all class rooms																						
D	Laboratories																						
	1. No of laboratories – 7																						
	<table><tr><th>Name of the laboratory</th><th>No of Systems</th></tr><tr><td>Computer Center 1</td><td>40</td></tr><tr><td>Computer Center 2</td><td>40</td></tr><tr><td>Computer Center 3</td><td>20 + other equipments for mp and EC-LD lab</td></tr><tr><td>Computer Center 4</td><td>20</td></tr><tr><td>Computer Center 5</td><td>30</td></tr><tr><td>Computer Center 6</td><td>20</td></tr><tr><td>Computer Center 7</td><td>05</td></tr><tr><td>Computer Center 8</td><td>05</td></tr><tr><td>Computer Center 9</td><td>07</td></tr><tr><td>Staff Rooms</td><td>11</td></tr></table>	Name of the laboratory	No of Systems	Computer Center 1	40	Computer Center 2	40	Computer Center 3	20 + other equipments for mp and EC-LD lab	Computer Center 4	20	Computer Center 5	30	Computer Center 6	20	Computer Center 7	05	Computer Center 8	05	Computer Center 9	07	Staff Rooms	11
Name of the laboratory	No of Systems																						
Computer Center 1	40																						
Computer Center 2	40																						
Computer Center 3	20 + other equipments for mp and EC-LD lab																						
Computer Center 4	20																						
Computer Center 5	30																						
Computer Center 6	20																						
Computer Center 7	05																						
Computer Center 8	05																						
Computer Center 9	07																						
Staff Rooms	11																						
	2. CC cameras – every Laboratory																						
	3. White boards – all laboratory																						
	4. AC's : available in all laboratories																						

31	Number of students receiving financial assistance from college, university, government or other agencies					
	YEAR	Central Government Scholarship for SC/ST (Karnataka)	Fee Concession for OBC students (Karnataka)	Ex-Defense children scholarship	Municipal Scholar	others
	2016-2017	41	201			
	2015-2016	335	701		06	02
	2014-2015	336	227		22	17
	2013-2014	322	497		28	02
	2012-2013	188	460		14	04
	2011-2012	379	261		04	04

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32 Details on student enrichment programmes (special lectures / workshop / seminar) with external experts				
Sl No	Topic	Date	Resource Person with Designation	Reference File
01	One day Industrial visit to TSN Cotton Factory	03/02/2017	Sapna Kulkarni ISTE coordinator	CSI File
02	Two days workshop on "Socket Programming in Linux and Maneuver Doc for Computer Science Researchers under CSI Chapter	07/02/2017	Dr.R.H Gowdar Associate Professor PG Centre VTU	CSI File
03	Seminar on Internet of Things	13/02/2017	Sri.Gurudatta palankar TENET TECHNETRONICS Bangalore	Project File
04	One day Exposition on Blended Learning Activities in Computer Graphics in Association with ACM Student Chapter	20/07/2017	Kavitha J R.P Rajeswari ACM Coordinators Dr Anuradha.S.G Event Convener	ACM File
05	Workshop on " Android Development Application " under ACM Student Chapter	20/010/2016 To 22/10/2016	Software Engineer Hyderabad	ACM File
06	Seminar in " The role of E -Governance Projects in Digital India" Conducted under ISTE	15/03/2016	Sri,Shivaprakash Vastrad District Informatics Officer, NIC Ballari	ISTE File
07	Seminar on Entrepreneurship Skills and Small Scale Industries in Association with DIC	2016	Sri, Somshekar Bankar Sri Nagaraj Sri Janardhan Reddy Sri.Kumar Gouda	Entrepreneurship File
08	Seminar on "Web Technology and Cloud Computing"	02/04/2016	Sri. Natarajan	ISTE File

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09	Awareness on CSIT	06/04/2016	CSE ISTE Members	ISTE File
10	Seminar on "Oracle Spatial Data"	23/04/16	Sri.Sreenivas Ramanujam Sri.Hari TCS Bangalore	Workshop File
11	Invited Talk on Recent Advances in Agent Technology	27/04/2016	Dr.K.Chidananda Gowda Vice Chancellor Kuvempu University Shimoga	Workshop file
12	Seminar on "Trends in IT"	2016	Mohammed Ilyas Kalyanadurga Manager – IT For Asia Pacific Operations Bangalore	Project File
13	Current Trends in IT	24/10/2016	Sai Natarajan Solution Architect Coimbatore	Project File
14	Invited Talk on "Mars;" MultiMedia Data Archival & Retrieval Systems	2/11/2015	Dr.D.S.Guru Professor Department of Computer Science UOM Mysore	Workshop File
15	Exigent Technical Fest 2015	2/11/2015 to 3/11/2015	Dr.D.S.Guru Professor Department of Computer Science UOM Mysore Dr.Mohammed Rafi Professor & Chairman Department of CSE UBDT Engineering College Davanagere	Workshop File
16	Workshop conducted on "ENTERPRENEUR SKILLS"	2015	DIC Official Team Ballari & Dharward	Entrepreneurship File
17	Workshop on "Android Application Development"	01/10/2013 To 03/10/2013	Ilyaz Software Engineer Hyderabad	Workshop File

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18.	Video Conferencing on "Recent Trends in Computer Networks" @ NIC, Zilla Panchayat in Association with ISTE Staff Chapter	2013	Sri.Shivaprakash Vastrad District Informatics Officer, NIC Ballari	ISTE File
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33 Teaching methods adopted to improve student learning

Teaching methods adopted to improve student learning

- PowerPoint Presentation
 - Class room teaching
 - Assignment
 - Tutorial Class
 - Remedial Class
 - Seminars
 - Mini Projects
 - Content Beyond syllabus
 - MOOC courses
 - Question Bank
 - Pre-Final Examination
 - Blended learning
- The faculties use PowerPoint presentations to explain process or algorithms or concepts like OSI, TCP/IP, extreme Programming, and the programming subjects are thought in hands on sessions in laboratory
- Traditional Classroom teaching is the intrinsic parts of student learning and always essential component.
- Assignment method is used for homework and practicing
- Tutorial Classes are internal part of weekly timetable and conducted as per

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	<p>schedule.</p> <ul style="list-style-type: none"> ➤ Remedial classes are conducted for slow learners to help them improve their semester results. ➤ Seminars are very good tool to inculcate qualities like stage courage, presentation style and others. It is part of curriculum; in addition class seminars are also conducted. ➤ Mini-projects are conducted as part of learning process for some of the practical sessions. ➤ Few activities are conducted that are beyond the syllabus to improve student learning. ➤ Students are advised to take MOOC Courses – Massive Open Online Courses, and Watch NPTEL videos to help their self study process and add value to their Resume. ➤ A comprehensive Question Bank is prepared to help students for better preparation for the examination. ➤ Lastly, A pre-final examination is conducted for students to make them ready for semester examination.
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34	Participation in Institutional Social Responsibility (ISR) and Extension activities		
Academic Year			
	sno	Date	Event
Academic Year 2017-18			
	1	2017	Visit to Balamandir to teach "MORAL ETHICS" to all the students
	2	15.08.2017	Distributed tables and conducted small competitions
	3	Yet to be executed on sept 16 2017	To Teach about "HOW TO FACE THE REAL -TIME CHALLENGES"
Academic Year 2016-17			
	1	23.08.2016	Planted trees in the campus and donated plants to all the Teachers
	2	16.06.2016	Seminar on "Cervical cancer" and distribution of free coupons for medical check up
	3	May 2016	Seminar on "Congenital diseases for pregnant women" for Ladies staff and girl students
Academic Year 2015-16			
	1	Sept 2015	Conducted "TEACHERS DAY and ENGINEERS DAY" to enlighten the role of Teacher and Engineer to build a strong Nation
	2	Nov 1 2015	Conducted "Kannada Rajyostva" to inculcate the spirit of loving their own land and to bring harmony and unity among younger

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		generation
3	2015	Participated in "PERSONALITY DEVELOPMENT SEMINAR" to know the essence of leading Happy life
4	2015	Conducted "TECH-FEST-"EXIGENT" to give all round technical exposures to budding engineers
5	Oct 2015	"Save Life"--Blood Donation camp to give blood to the needy, to create awareness about humanity, value of life.
6	March 8 th 2016	Awareness program for girls students on "women health and empowerment"
7	Every year	Has conducted "TCS TECH BYTES" to give exposure about the various issues happening in the technical domain
Academic Year 2014-15		
sno	Date	Event
1	2014	Participated in "swaccha Bharath " campaign in the college campus, to highlight the concept "Cleanliness is next Godliness
2	Every year	Has conducted "TCS TECH BYTES" to give exposure about the various issues happening in t technical domain
Academic Year 2013-14		
sno	Date	Event
1	2013	Conducted "Martial Arts and LEGAL AWARENESS" to make the Female strong enough to fight against Sex-harassment cases
2	21-09-2013	NSS UNIT RYMEC & VIMS, Blood bank jointly organized VBD-camp, around 259 People (students and staff) donated the blood. This is new record in Bellary district.
3	Every year	Has conducted "TCS TECH BYTES" to give exposure about the various issues happening in t technical domain
Academic Year 2012-13		
sno	Date	Event
1	2013	Has participated in "ORPHANGE-celebrations
2	Every year	Has conducted "TCS TECH BYTES" to give exposure about the various issues happening in t technical domain
Academic Year 2011-12		
1	5-11-2011	NSS UNIT RYMEC & District task force committee of Bellary jointly organized VBD-camp, around 251 People (students and staff) donated the blood. This is new record in Bellary district.
2	Every year	Has conducted "TCS TECH BYTES" to give exposure about the various issues happening in t technical domain

35 | SWOC analysis of the department and Future plans

Strengths of the department

1. Department accredited by NBA New Delhi for three years
2. State of art infrastructure to support teaching and learning process
3. Blended learning in class room teaching
4. Qualified faculty, talented and dedicated, knowledgeable and cooperative faculty.

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- great collaboration and good communication among faculty
5. Numerous research/independent study opportunities for students
 6. Strong academic leadership and good support to faculty to pursue doctoral degree
 7. Cohesive department with cooperative disposition for all staff members
 8. Maintains good admission record since its inception
 9. Graduates of the department are leaders in academia, industry and government

Weakness of the department

1. Very few staff members with Ph D qualification
2. Insufficient cadre ration as mandated by regulation authorities
3. Academic ranking of faculty not maintained in the department
4. Inactive in research funding. Develop more national/state level grant proposals and increase/establish funds available for Research Activities
5. Poor collaboration among faculty in research activities and its outcomes
6. Very poor record of outreach academic activities
7. Industry – Institute collaboration needs to be strengthened
8. Limited program palpability for faculty and students to grow beyond class room in social responsibility

Opportunities of the department

1. Develop inter disciplinary research in areas of Computer Science and Engineering
2. Opportunities to find research grants from industry and government agencies
3. Strengthen program to improve conversion ratio in off and on campus placement drives
4. Maintaining and utilizing better contact to alumni the department
5. Strengthen the program to attract meritorious intake to program
6. Extend continuing education to stake holders
7. Graduates of program shall embrace emerging technical trends to find successful career in industry or academia
8. Set up industry sponsored lab or research cell to promote research

Challenges of the department

1. Gradual decline of meritorious student admission to the program
2. Continuous decline of committed faculty joining the engineering education
3. Continuous encroachment of other departments in CS department mission
4. Limited research funding from local industries or companies
5. Insufficient financial support from state or national agencies for higher education research
6. High overheads and establishment payments makes difficult for self financing institutions to sustain to provide quality education to poor meritorious students
7. Overall financial weaknesses may threaten the hiring of new experienced faculty

at the desired level

8. It is hard to balance teaching quality with research

Future Planes:-

1. Establishing Center of Excellence
2. Converting Research ideas into future projects
3. Training on Skill set for Students
4. Encouraging The Faculty to pursue Ph.D

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DEPARTMENT OF INDUSTRIAL AND PRODUCTION ENGINEERING

Evaluative Report of the department

1	Name of the department	Industrial and Production Engineering
2	Year of Establishment	1986-87
3	Names of Programmes / Courses offered (UG, PG, M.Phil., Ph.D., Integrated Masters, Integrated Ph.D., etc.)	• Industrial and Production Engineering – UG(BE)
4	Names of Interdisciplinary courses and the departments/units involved	• DEPARTMENT OF MATHEMATICS(MATHS FOR 1 ST AND 2 ND YEAR) • DEPARTMENT OF PHYSICS(PHYSICS FOR 1 ST YEAR) • DEPARTMENT OF CHEMISTRY(CHEMISTRY FOR 1 ST YEAR) • DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGG(BASIC ELECTRICAL FOR 1 ST YEAR) • DEPARTMENT OF MECHANICAL ENGG(EMECAD AND WORK SHOP FOR 1 ST YEAR) • DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGG(BASIC ELECTRONICS FOR 1 ST YEAR) • DEPARTMENT OF CIVIL ENGG(ELEMENTS OF CIVIL ENGG AND ENVIRONMENTAL FOR 1 ST YEAR) • COMPUTER SCIENCE AND ENGINEERING
5	Annual/ semester/choice based credit system (programme wise)	• 2010 – 2014 BATCH SEMESTER WISE • 2015- 1 ST YEAR CBSC SYSTEM
6	Participation of the department in the courses offered by other departments	CIP
7	Courses in collaboration with other universities, industries, foreign institutions, etc.	NIL
8	Details of courses/programmes discontinued (if any) with reasons	NIL
9	Number of Teaching posts	08

	Sanctioned	Filled
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Professors	01	01
Associate Professors	2	2
Asst. Professors	5	2

10	Faculty profile with name, qualification, designation, specialization, (D.Sc./D.Litt. /Ph.D. / M. Phil, etc.,)
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Name	Qualification	Designation	Specialization	No. of Years of Experi	No. of Ph.D. Students guided for the last 4 years
Dr. Angadi Thimmanna Gouda	Ph.D	Prof & HOD	Maintenance engg.	27	03 (guiding)
Mr. Tuppada Vishwanath	M.Tech	Assoc. Prof	Production Management	24	
Mr. Chandrashekar Hiregoudar	M.Tech(Ph.D)	Assoc. Prof	Production Management	23	
Mr. Duda Naik Doddamani	M.Tech(Ph.D)	Asst. Prof	M/C Design	9	
Mr. Veerabhadrapppa Alguw	M.Tech(Ph.D)	Asst. Prof	Tool Engg.	6	
Mr. Vaddin Chetan	M.Tech	Asst. Prof	CFD	2	

11	List of senior visiting faculty:
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Sl. no	Name of Visiting Faculty	Qualification	Experience
	Nil		

12	Percentage of lectures delivered and practical classes handled (programme wise) by temporary faculty
	Nil

13	Student -Teacher Ratio (programme wise)
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Student Teacher ratio Programme wise has been mentioned in the table below:

Sl	Programme	Year	No. of	No. of	Student:
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no			students	teachers	teacher ratio
1	UNDER GRADUATE BE (I & PE)	2017-2018	80	6	13.33
2		2016-2017	120	8	15
3		2015-2016	120	8	15
4		2014-2015	120	8	15
5		2013-2014	120	8	15

- 14 Number of academic support staff (technical) and administrative staff, sanctioned and filled

The below given table gives the cadre wise structure of academic support:

	Sanctioned	Filled
Administrative staff	-----	NIL
Lab instructor	3	1
Assistants	3	3

- 15 Qualifications of teaching faculty with DSc/ D.Lit/ Ph.D/ MPhil / PG.

Sl no	Faculty Name	Qualification
1	Dr. Angadi Thirumana Gesadi	Ph.D
2	Mr.Tuppada Vishwanath	M.Tech
3	Mr. Chandrashekar Hiregowdar	M.Tech(Ph.D)
4	Mr.Duda Naik Doddamani	M.Tech(Ph.D)
5	Mr. Veerasubdrappa Algur	M.Tech(Ph.D)
6	Mr.Vaddan Chetan	M.Tech(Ph.D)

- 16 Number of faculty with ongoing projects from: a) National b) International funding agencies and grants received

Sl no	Title of the project	National / international	Funding agency	Principal investigator/ co-investigator	Duration of the project	Amount sanctioned
1	Nil					

- 17 Departmental projects funded by DST - FIST: UGC, DBT, ICSSR, etc. and total grants received

Slno	Title of the project	Funding agency	Amount sanctioned
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1	Nil
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18	Research Centre /facility recognized by the University: No
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19	Publications:						
	* Publication per faculty						
	Sl no	Faculty name	No of Publications				
	1	Dr. Angadi Thimmana Gouda	10				
	2	Mr.Tuppada Vishwanath					
	3	Mr. Chandrashekar Hiregoudar	02				
	4	Mr.Duda Nark Daddamani					
	5	Mr. Veerabhadrapa Algar	22				
	6	Mr.Vaddin Chetas	04				
	* Number of papers published in peer reviewed journals (national /international) by faculty and students						
	Total No. of papers published in International Journal :						
	Total No. of papers published in National Journal :						
	Sl no	Title	Author	Name of the Journal	ISSN /ISBN	YEAR	VOLUME
	01	Analysis of Mechanical properties of Carbon fiber polymer composites used as orthopaedic implants.	Dr. A. Thimmana Gouda	(IJMER),		August 2015,	Vol.5, Issue 8,
	02	Study on Failure of Dephlegmator in Ammonia Distillation Column	Chandrashekar Hiregoudar	(IJME),		Feb. 2016	Vol. 4, Issue 2,
	03	Design and Analysis of Waste Heat Recovery System to Improve the Performance of blast Furnace	Chandrashekar Hiregoudar	International Journal for Ignited Minds,		March-2016	Vol. 3, Issue 3,
	04	Optimization of sliding specific wear and Frictional force behaviour of Modified ZA-27 alloy using Taguchi Method	Veerabhadrapa Algar	International Journal on Recent and Innovation Trends in Computing and Communication,	Pp-2644 - 2649	May 2015,	Vol. 3 Issue 5,
	05	Effect of T6 type heat treatment on the Mechanical characterization of Al6061-Al ₂ O ₃ particulate composites	Veerabhadrapa Algar	International Journal of Emerging Trends in Engineering and Development,		May 2015,	Vol. 3, Issue 5, Pp-309-315.
	06	Fabrication and Experimental Study on	Veerabhadrapa Algar	International Journal of Applied	Pp-4319	December	Vol. 1, Issue

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		Optimization of Process Parameters for Drilling of GFRP with Iron Ore as Filler Material using Taguchi And ANOVA		Engineering Research,	5-43198	2015,	12,
	07	Analysis, Identification and Modification in the Process in Order to Improve the Productivity and Quality of TMT Rolling Mill	Veerabhadrappa Alur	International Journal of Emerging Technology and Advanced Engineering,		December 2015,	Vol.5, Issue: 12, Pp-206-212
	08	Process parametric optimization of Impact test using Taguchi and ANOVA approach	Veerabhadrappa Alur	(IJME),		Jan 2016,	Vol. 4, Issue: 1, Pp-18-26.
	09	Effect Of Process Parameters On Flatness Of Plasticcomponent	Dr. A. Thimmana Gouda	International Journal of Mechanical Engineering and Technology,		April 2014,	Volum e5, Issue 4, pp 103-109
	10	Development Of Strategic Plan In A Technical Educational Institution Through Swot Analysis	Dr. A. Thimmana Gouda	International Journal of Industrial Engineering Research and development,		March - April (2014)	Volum e 5, Issue 2, pp. 18-24
	11	Wear Study On Hybrid Natural Fiber Polymer Composite Materials Used As Orthopaedic Implants	Dr. A. Thimmana Gouda	International Journal of Advanced Trends in Computer Science and Engineering,		2014,	Vol.3 , No.4, pp-21-28.
	12	Evaluation Of Mechanical Properties Of Existing Material SS316L Used As Femur Bone Implant Material	Dr. A. Thimmana Gouda	International Journal of Innovative Research in Technology & Science,			Vol. 2, No. 4
	13	Characterization And Investigation Of Mechanical Properties Of Hybrid Natural Fiber Polymer Composite Materials Used As Orthopaedic Implants For Femur Bone Prosthesis	Dr. A. Thimmana Gouda	" , IOSR Journal of Mechanical & Civil Engineering,		July-Aug 2014	Vol. 11, Issue4,
	14	Effect Of Process Parameters On Flatness Of Plasticcomponent	Veerabhadrappa Alur	International Journal of Mechanical Engineering and Technology,		April 2014,	Volam e5, Issue 4, pp 103-

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	15	Development Of Strategic Plan In A Technical Educational Institution Through Swot Analysis	Veerabhadrappe Alur	International Journal of Industrial Engineering Research and development.		March - April (2014)	Volume 5, Issue 2, pp. 18-24
	16	Analysis Of Mechanical Properties Of Glass/Orthophthalic Polyester Resin With Hematite Ore Filled Composites	Veerabhadrappe Alur	International Journal of Research (IJR)		August 2014,	Vol-1, Issue-7, pp. 167-171
	17	Some Investigations On The Tribological Wear Behaviour Of Modified ZA-27 Alloy Based On Taguchi Method	Veerabhadrappe Alur	International Journal of Mechanical and Industrial Technology	ISSN 2348 - 7593 (Online)	September 2014	Vol. 2, Issue 1, pp: (20-27),
	18	Experimental Investigation On Friction Characteristics Of Modified ZA-27 Alloy Using Taguchi Technique	Veerabhadrappe Alur	Int. J. Mech. Eng. & Rob. Res. 2014 www.ijmerr.com	ISSN 2278 - 0149	October 2014 © 2014	Vol. 3, No. 4, UMER R, pp. 24-32
	19	Dry Sliding Wear Behaviour Of Aluminium Alloy Reinforced With SiC Metal Matrix Composites Using Taguchi Method	Veerabhadrappe Alur			October 2014,	Vol. 3, No. 4, pp. 49-57
	20	Some Investigation On Dry Sliding Wear Behaviour Of Ultra High Carbon Steel	Veerabhadrappe Alur	International Journal of Mechanical Engineering Research (IJMER),		Number 1 (2014)	Volume 4, pp. 75-82
	21	Analysis Of Wear Behaviour Of A Heat Treated Modified AZ-27 Alloy By Taguchi Technique	Veerabhadrappe Alur	Technique International Journal of Recent and Innovation Trends.		December - 2014	Volume-2, Issue-12,
	22	Evaluating The Influence Of Fiber Orientation And Filler Content On Tensile, Hardness, And Impact Strength Of Hybrid Laminated Composites	Veerabhadrappe Alur	International Journal of Mechanical Engineering Research (IJMER),		January 2015,	Vol.3, Issue1, pp.25-31

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23	Optimization Of Friction Performance Of A Heat Treated Modified ZA-27 Alloy Using Design Of Experiments	Veerabhadrappa Alur	International Journal of Current research,		January 2015,	Vol. 7, Issue-01, pp-11526-11533
24	The Effect Of Pearlite, Cementite And Marten Site Phases On Volumetric Wear Rate Of Hypereutectoid Steel Under Dry Sliding Conditions	Veerabhadrappa Alur	International Journal of Metallurgical & Materials Science and Engineering (IJMMSE),		Feb 2015,	Vol. 5, Issue 1, pp. 31-38, ISSN:278-2516
25	Dry Sliding Wear Behaviour Of Hypereutectoid Steel Under The Influence Of Microstructures, Sliding Speeds And Normal Pressures	Veerabhadrappa Alur	International Journal of Mechanical Engineering and Robotics Research,	ISSN 2278 - 0149	April 2015,	Vol. 4, No. 2,
26	Fabrication And Evaluation Of Mechanical Properties Of Fe ₂ O ₃ Particulate Filled Hybrid Composites	Veerabhadrappa Alur	Journal of the International Association of Advanced Technology and Science,	ISSN - 3347 - 4482	March 2015,	Vol.16, Nol. 01,
27	characterization and investigation of tensile and compression test in sisal fibre reinforcement epoxy composite materials used as orthopaedic implant	Dr. A. Thimmanna Gouda	International Journal of application or innovation in Engineering and management,	ISSN - 2319 - 4847,	Dec 2013	Vol. 2, Issue 12
28	characterization and analysis of wear study on sisal fibre reinforcement epoxy composite materials used as orthopaedic implant	Dr. A. Thimmanna Gouda	International Journal of Advances in Engineering & Technology, IJAET	ISSN - 2231 1963,	Jan. 2014	Vol. 6, Issue 6, pp. 2745-2757,
29	Zone of tolerance for the banks	Veerabhadrappa M Havinal	Research Journal of economics & business studies,	ISSN 2251 - 1555	2013	ISSUE NO(7)
30	Prioritizing service quality dimensions of private sector banks	Veerabhadrappa M Havinal	Int. Journal of marketing financial services & management	ISSN 2277 - 3622	2013	ISSUE NO(7)

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				research.			
*	Number of publications listed in International Database (For Eg. Web of Science, Scopus, Humanities International Complete, Dure Database - International Social Sciences Directory, EBSCO host, etc.)						
*	Monographs						
	Provide list						
*	Chapter in Books						
	Provide list						
*	Books Edited						
	Provide list						
*	Books with ISBN/ISSN numbers with details of publishers						
	Provide list						
*	Citation Index						
	Provide list						
*	SNIP						
	Provide list						
*	SJR						
	Provide list						
*	Impact factor						
	Provide list						
*	H-index						
	Provide list						

20	Areas of consultancy and income generated			
	Sl no	Consultancy work	year	Amount generated
	1	Nil	2016-2017	Nil
	2		2015-2016	
	3		2014-2015	
	4		2013-2014	
	5		2012-2013	

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21 Faculty as members in			
a) National committees			
	Sl no	Faculty name	Committee member
	1	Dr. Angadi Thimmanna Gowda	MISTE, MIE, ISCA
	2	Mr. Tuppada Vishwanath	MISTE
	3	Mr. Chandrashekar Hiregoudar	MISTE
	4	Mr. Duda Naik Doddamani	
	5	Mr. Veerabhadrapu Algur	UAMAE, MISTE
	6	Mr. Vaddin Chetan	MISTE
	7		
	8		
b)			
	Sl no	Faculty name	Committee member
	1		
	2		
	3		

22 Student projects					
<p>Students are encouraged to carry out research oriented projects which are of social relevance involving state-of-art and inclusive technology.</p> <p>Students get an opportunity to use latest tools and technical know-how in the process of executing the project.</p> <ul style="list-style-type: none"> • Students are provided the required infrastructure to do their projects (in-house). • Risks are discussed at each project progress review meeting. • The Department keeps track of the progress of the project in terms of completion, time and costs. • To enforce team work, students are asked to form a group of 3 to 4 members to carry out the project work. This enables them to build team spirit and helps in co-coordinating various activities. <p>a) <i>Percentage of students who have done in-house projects including inter departmental/programme</i></p> <p>b) <i>Percentage of students placed for projects in organizations outside the institution i.e. in Research laboratories/Industry/ other agencies</i></p>					
*	Sl no	Programme	Year	% of projects done inside the Institute (a)	% of projects done outside Institute (b)
	1	Under Graduate BE (I & PE)	2016-2017	25%	75%
	2		2015-2016	70%	30%
	3		2014-2015	70%	30%
	4		2013-2014	82%	18%
	5		2012-2013	80%	20%

23 Awards / Recognitions received by faculty and students	

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Following Students received awards/recognitions in various events.						
year	Name of the student	Date	Event Name	Venue	Award	
2015-16	Srikant	29 th Feb & 1 st March 2016	Volleyball	Ballari		
2015-16	Aruna Kumari	18 th to 23 rd April 2016	VTU Inter zonal hockey	RYMEC, Ballari	1 st place	
2015-2016	Aruna Kumari	5 th April 2015	hockey	Ro. Mysore	winner	
	Aruna Kumari	9 th oct 2015	Throw ball	B.L.D.E.A.s bijapur	winner	
	Vasudendra H K	21 st feb 15	Paper presentation	BITM Bellary.	-	
	Sudheer K	21 st feb 15	Paper presentation	BITM Bellary.	-	
2014-2015	Lavanya A	2014	Tes tech bytes	Bytes Tata consultancy services, Mumbai.		
2013-2014	Kiran kumar A. Voeresh S.B	23 rd march 2013	Movie making	R.Y.M.E.C. Bellary.	winner	
2012-2013						
2011-2012	Virupaksha Goud H.	12 th april 2012	academic	R.Y.M.E.C. Bellary	Gold medal-I	
	Reshma P.	12 th april 2012	academic	R.Y.M.E.C. Bellary	Silver medal-II	
	Ravi Kumar	12 th april 2012	academic	R.Y.M.E.C. Bellary	Bronze medal-III	
	Virupaksha Goud H.	2010-2011	academic	R.Y.M.E.C. Bellary	6 TH Place	
	Reshma P.	2010-2011	academic	R.Y.M.E.C. Bellary	10 TH Place	
	Amith Megharaj	2010-2011	academic	R.Y.M.E.C. Bellary	7 TH Place	
	Aji James	2011-2012	paper: Six Sigma	SIT, Tumkur		
	Ajay Kumar	2011-2012	paper: Six Sigma	SIT, Tumkur		
	Amith Megharaj	14-03-2011	academic	VTU.Belaum	2011 Topper	
	Ravichandra P	Sept	SKIT	SPMVV.	1 ST	

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			2011		Tirupathi	
		Ravichandra P	Sept 2011	QUIZ, JAM	SPMVV, Tirupathi	1 st

24 List of eminent academicians and scientists / visitors to the department					
Sl no	department	topic	Resource Person with designation	Date of visit	
01	Industrial & Production Engineering	Six days faculty development program on "product life cycle management and thermo acoustic refrigeration"	Dr. M Vijay kumar prof, JSSATE, B'lore. Dr. B G Prashanth prof, JSSATE, B'lore	11 th to 16 th august 2017	
02	Industrial & Production Engineering	One day invited talk on "Reengineering- The Life Style"	Sri. Swamy Chidrupananda Saraswati	01.04.2017	
03	Industrial & Production Engineering	Invited talk on "Role of Teachers in society"	Sri. V V Venkataramana Shastri	03.03.2017	
04	Industrial & Production Engineering	One day seminar on "CAD/CAM/CAE/UG-NX)	CAD centre Ballari	17.03.2017	
05	Industrial & Production Engineering	Awareness program on Energy conservation	Sri. Amar Srinivas Deputy Manager, IOCI, Ballari	13.02.2017	
06	Industrial & Production Engineering	In house FDP on OBE	Dr. Suresh R Prof, BMSCE, Ballari.	16 to 19 Jan 2017	
07	Industrial & Production Engineering	Three days workshop on Engine Technology	Sri Madusudan PS Co-Founder & Managing Director Rectangle Automotive Technologies LLP, DAvangere	26 th to 28 th October 2016	
08	Industrial & Production Engineering	Wi-Fi Networking & Automation by Selenium & Python	Sri. Ayyanna Gourikar B'lore	27 February 2016	
09	Industrial & Production	Two Days FDP on "System Dynamics	Dr. Virupakshi Bagodi	18 -19 February 2016	

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		Engineering			
	10	Industrial & Production Engineering	Two Days Students Workshop on "Industrial Applications of Hydraulics and Pneumatics" on 16/10/2015 and 17/10/2015.	KLE, Hubli Sri. Ashok kulkarni Hyderabad	16-17/10.2015
	11	Industrial & Production Engineering	3 days(s) FDP on Industrial Automation And Computer Aided Engineering	01. Sri. Anil Kumar M 02. Sri. Harsha H 03. Sri. Umar Farooq Hosamani Hunet Technology, B'lore	23-25/JULY/2015
	12	Industrial & Production Engineering	Application of value engineering in enhancing quality of production	Sri Ramprasad cherkur Consulting engineer Raytheon Inc	31 st march 2015
	13	Industrial & Production Engineering	Industrial Applications of Hydraulics and Pneumatics	Ashok R kulkarni Freelance trainer banglore	16-17 Oct 2015
	14	Industrial & Production Engineering	"System Dynamics	Dr Virupakshi bagodi Prof.GEC haveri	18-19 feb 2016
	15	Industrial & Production Engineering	Wi-Fi Networking & Automation by Selenium & Python	Sri Ayyana gurikkar , Sri anil pradha	27 th feb.2016
	16	Industrial & Production Engineering	Industrial Automation And Computer Aided Engineering	Hu net technologies Banglore	23-25 th july 2015
	17	Industrial & Production Engineering	Digital financing services	Sri manjunatha Reddy S Senior manager federal bank	14 th Sep 2015
	18	Industrial & Production Engineering	Emerging trends in mechanical and production Engg	Dr H G hanum natha - raju Prof. U V C E Banglore Dr B P MAHESH Prof JSSATE	08.03.2014

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					Bangalore	
	19	Industrial & Production Engineering	AWARENESS PROGRAM ON CAD/CAM/CAE/PLM	ANUDEEP VAGGAR CAD MAX SOLUTIONS BANGLORE	28.03.2014	
	20	Industrial & Production Engineering	FUNDAMENTAL aspects of machine design elements and alternative energy sources (bio - fuels)	Dr. R. Suresh Prof. SIT TUMKUR Dr. G. R. Bharath Sai kumar Prof. SIT TUMKUR	28-sep-2013	
	21	Industrial & Production Engineering	National robotics championship		7 th and 8 th nov 2012	
	22	Rymec Ballari	State level techno cultural fest DA ABHIYANTHA		5 th and 6th nov 2012	
	23	Industrial & Production Engineering	Project management	Sri abhikalyan project head cad center banglore	10.10.2012	
	24	Industrial & Production Engineering	AWARENESS PROGRAM ON CAD/CAM/CAE	Sri anantharam, sri Md Akhil, sri vb uppini sri balamurali Krishna Managers cad center Chennai	14.03.2012	

25 Seminars/ Conferences/Workshops organized & the source of funding							
a) National							
	Sl no	Activities	Name of the Short Term Course / Training / FDP Conducted	Funding agency	Amount	Duration Month and year	No of Participants
	1	Workshop	Industrial Automation And Computer Aided Engineering	RYMEC Ballari		3 days(s) 23- 25 July 2015	All staff and students.
	2	Workshop	"Industrial Applications of Hydraulics and Pneumatics" on 16/10/2015 and 17/10/2015	RYMEC Ballari		Two Days 16-17 October 2015	All staff and students.

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		3	FDP	System Dynamics	RYMEC Ballari		Two Days 18 -19 February	All staff and students.
		4	Seminar	Wi-Fi Networking & Automation by Selenium & Python	RYMEC Ballari		27 February 2016	All staff and students
		5	Seminar	Application of value engineering in enhancing quality of production	RYMEC Ballari		31 st march 2015	All staff and students
		06	Seminar	Digital financing services	RYMEC Ballari		14 th Sep 2015	All staff and students
		07	Seminar	Emerging trends in mechanical and production Engg	RYMEC Ballari		08.03.2014	All staff and students
		08	Awareness Program	CAD/CAM/CAE/PLM	RYMEC Ballari		28.03.2014	All staff and students
		09	Seminar	FUNDAMENTAL aspects of machine design elements and alternative energy sources (bio -fuels)	RYMEC Ballari		28-sep-2013	All staff and students
		10	Seminar	National robotics champion ship	RYMEC Ballari		7 th and 8 th nov 2012	All staff and students
		11	Seminar	State level techno cultural fest" DA AHHIYANTHA"	RYMEC Ballari		5 th and 6 th nov 2012	All staff and students
		12	Seminar	Project management	RYMEC Ballari		10.10.2012	All staff and students
		13	Awareness Program	CAD/CAM/CAE	RYMEC Ballari		14.03.2012	All staff and students
b) International								
		Sl no	Activities	Name of the Short Term Course / Training /FDP Conducted	Funding agency	Amount	Duration Month and year	No of Participants
NIL								

26 Student profile programme/course wise:						
	Name of the Course	Academic year	Application Received	Selected Seats		Pass Percentage
				Male	Female	
1	BE: (I & PE)	2015-2016	Admission through KEA/ COMED-K	4	1	Eligibility criterion is 40% for SC/ST and 45% for
2		2014-2015		4	1	
3		2013-2014		6	1	
4		2012-2013		5	0	
5		2011-2012		7	1	

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					others
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27	Diversity of Students				
	Name of the Course	year	% of students from the same state	% of students from other States	% of students from abroad
1	Under graduate BE (I & PE)	2016-2017	100.00%	0.00%	NIL
2		2015-2016	100.00%	0.00%	
3		2014-2015	100.00%	0.00%	
4		2013-2014	100.00%	0.00%	
5		2012-2013	83.33%	16.67%	

28	How many students have cleared national and state competitive examinations such as NET, SLET, GATE, Civil services, Defense services, etc.?			
	State level	No. of Students	National level	No. of Students
	NET	Nil	GATE	01
	SLET	Nil	Civil services	Nil
			Defense services	Nil

29	Student progression					
	Student progression	Percentage against enrolled				
		2014-2015	2013-2014	2012-2013	2011-2012	2010-2011
	UG to PG	02	01	04	03	
	PG to MPhil	Nil	Nil	Nil	Nil	Nil
	MPhil to Ph.D	Nil	Nil	Nil	Nil	Nil
	Ph.D to Post Doctoral	Nil	Nil	Nil	Nil	Nil
	Employed					
	Campus selection	Nil	Nil	Nil	Nil	1
	Other than campus recruitment	Nil	1	Nil	Nil	Nil
	Entrepreneurship/Self-employment	Nil	Nil	Nil	Nil	Nil

30	Details of Infrastructural facilities	
	a) Library facilities	
Total no. of Volumes	2038	
Journal	Total - 06 (DHRDM, UMMR, UQAM, DIPET, UMSM, IPTMR)	
Project Report	Maintained	
News Letters	Department maintains Newsletter for every 6 months	
Syllabus	Syllabus copy is maintained in departmental library	
Question Bank	Maintained in library	

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Digital Library	http://192.168.8.4:8080/ for English books http://192.168.8.4:8081/ for General Books http://192.168.8.4/gdlc1/ http://192.168.8.4/gdlc2/ http://192.168.8.4/gdlc3/ http://192.168.8.4/gdlc4/ for Technical Books http://192.168.8.4/nptel/ for NPTEL lecture videos http://192.168.8.4/qp/ - Question papers Remote accessing of digital library can be accessed in campus network via remote desktop connection. IP address: 192.168.8.4 user name : gdlcuser1...20 password:123456
E-Journal	Springer, Taylor & Francis, science direct, Proquest, CRCnetBase
b) Internet facilities for Staff & Students	
1. Internet facility to staff:	<ul style="list-style-type: none"> Internet provider -BSNL Available bandwidth - 10Mbps Access speed - 100 Mbps
c) Class rooms with ICT facility	
1. Classrooms - 3	
2. Dell tabs - 3	
3. Laptops - 1	
4. Projectors - 1	
5. CC cameras - every classroom	
Black board and White board - all class rooms	
d) Laboratories	
1. Total 10 Laboratories	
2. M&MT, MMM, F&F, M/C, CAMD (Shared with Mechanical Engg Dept.), WSE, MTD, SA, CAD/CAM, CNC & Robotics	
CC cameras - in almost Laboratory	
White boards - all laboratory	
Aca : available in all laboratories	

31 Number of students receiving financial assistance from college, university, government or other agencies						
YEAR	Central Government Scholarship for SC/ST (Karnataka)	Fee Concession for OBC students (Karnataka)	Ex-Defence children scholarship	Municipal Scholar	others	
2015-2016	335	701	--	06	02	
2014-2015	336	227	--	22	17	
2013-2014	322	497	--	28	02	
2012-2013	188	466	--	14	04	
2011-2012	379	261	--	04	04	

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32	Details on student enrichment programmes (special lectures / workshops / seminar) with external experts			
	Sl. no	Topic	Date	Resource Person with designation
	01	Two Days Students Workshop on "Industrial Applications of Hydraulics and Pneumatics" on	16-17 October 2015	Mr. Ashok R. Kulkarni Freelance Trainer, Bangalore
	02	Wi-Fi Networking & Automation by Selenium & Python	27 February 2016	Sri Ayyana gurikkar, Sri anil pradha
	03	Awareness program on CAD/CAM/CAE	14.03.2012	Sri. Anantha Ram, Sri. Md. Akhil, Sri V.B. Uppin, Sri. Bala Muralikrishna, Managers, CADD Centre Chennai.
	04	Awareness Programme on CAD/CAM/CAE/PLM on	28.03.2014	Anudeep Vaggar Cadmaxx Solutions, Bangalore

33	Teaching methods adopted to improve student learning
	<p>Teaching methods adopted to improve student learning</p> <ul style="list-style-type: none"> • PowerPoint Presentation • Class room teaching • Assignment • Tutorial Class • Remedial Class • Seminars • Content Beyond syllabus • MOOC courses • Question Bank • Pre-Final Examination <p>➤ The faculties use PowerPoint presentations to explain process or mechanisms or concepts like design, analysis, manufacturing many subjects are thought in hands on sessions in laboratory</p> <p>➤ Traditional Classroom teaching is the intrinsic parts of student learning and always essential component.</p> <p>➤ Assignment method is used for homework and practicing</p> <p>➤ Tutorial Classes are integral part of weekly timetable and conducted as per schedule.</p>

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- Remedial classes are conducted for slow learners to help them improve their semester results.
- Seminars are very good tool to inculcate qualities like stage courage, presentation style and others. It is part of curriculum; in addition class seminars are also conducted.
- Mini-projects are conducted as part of learning process for some of the practical sessions.
- Few activities are conducted that are beyond the syllabus to improve student learning.
- Students are advised to take MOOC Courses – Massive Open Online Courses, and Watch NPTEL videos to help their self study process and add value to their Resume.
- A comprehensive Question Bank is prepared to help students for better preparation for the examination.

Lastly, A pre-final examination is conducted for students to make them ready for semester examination.

34. Participation in Institutional Social Responsibility (ISR) and Extension activities		
Academic Year 2015-16		
sno	Date	Event
1	Sept 2015	Conducted "TEACHERS DAY and ENGINEERS DAY" to enlighten the role of Teacher and Engineer to build a strong Nation.
2	Nov 1 2015	Conducted "Kannada Rajyotsava" to inculcate the spirit of loving their own land and to bring harmony and unity among younger generation.
3	2015	Participated in "PERSONALITY DEVELOPMENT SEMINAR" to know the essence of leading Happy life.
4	Oct 2015	"Save Life"-Blood Donation camp to give blood to the needy, to create awareness about humanity, value of life.
Academic Year 2014-15		
sno	Date	Event
1	2014	Participated in "swaccha Bharat" campaign in the college campus, to highlight the concept "Cleanliness is next Godliness".
Academic Year 2013-14		
sno	Date	Event
1	21-09-2013	NSS UNIT RYMEC & VIMS, Blood bank jointly organized VBD-camp, around 259 People (students and staff) donated the blood. This is new record in Bellary district.
Academic Year 2012-13		
Sno	Date	Event
Nil		
Academic Year 2011-12		
1	5-11-2011	NSS UNIT RYMEC & District task force committee of Bellary jointly organized VBD-camp, around 251 People (students and staff) donated the blood. This is new record in Bellary district.
35. SWOC analysis of the department and Future plans		
Strengths		
1. Good infrastructure 2. Highly experienced staff 3. Consistent achievement of results, have proven with ranks. 4. Unique branch addressing industrial requirements of management.		

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Weakness	
	<ol style="list-style-type: none">1. Lack of recognition of the IPE2. Lesser government and private opportunities causing hindrance to students motives compared to other engineering branches
Opportunity	
	<ol style="list-style-type: none">1. IPE students have performed and proved highly successful while pursuing MBA and M.Tech (Production related branches)2. Extraordinary ability to take any job on professional front such as production, erection, manufacturing, software and administration
Challenges	
	<ol style="list-style-type: none">1. Recognition of the IPE branch potential in employing bodies2. Positioning IPE as customized for administrative branch3. Juxtaposition of congenial coexistence as other engineering branches4. Potentially implementing competitive outcomes with stellar results

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DEPARTMENT OF INFORMATION SCIENCE & ENGINEERING

Evaluative Report of the department

1	Name of the department	Information Science & Engineering
2	Year of Establishment	2001
3	Names of Programmes / Courses offered (UG, PG, M.Phil., Ph.D., Integrated Masters; Integrated Ph.D., etc.)	UG-ISE
4	Names of Interdisciplinary courses and the departments/units involved	CSE
5	Annual/ semester/choice based credit system (programme wise)	Semester
6	Participation of the department in the courses offered by other departments	NIL
7	Courses in collaboration with other universities, industries, foreign institutions, etc.	N/A
8	Details of courses/programmes discontinued (if any) with reasons	Not Applicable
9	Number of Teaching posts	08

	Sanctioned	Filled
Professors	01	01
Associate Professors	03	00
Asst. Professors	08	07

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10	Faculty profile with name, qualification, designation, specialization, (D.Sc./D.Litt. /Ph.D. / M. Phil. etc.)				
Name	Qualification	Designation	Specialization	No. of Years of Experience	No. of Ph.D. Students guided for the last 4 years
Dr.B.Sreepathi	P.hD	Prof & HOD	Image Processing	17	01
Mrs. Manjula Patil	M.Tech	Asst. Prof	Computer Networks	11	N/A
Mr. Mahantesh H.M	M.Tech	Asst. Prof	Computer Networks	6.6	N/A
Mrs. Pruthvi H M	M.Tech	Asst. Prof	Computer Science	4.6	N/A
Mrs. Sheela BP	M.Tech	Asst. Prof	Computer Science	8.6	N/A
Mr. Shivakeshi C	M.Tech	Asst. Prof	Computer Networks	4.6	N/A
Mr. Nagaraj Gowda H	M.Tech	Asst. Prof	VLSI	5.6	N/A
Mrs. Santhamma	M.Tech	Asst. Prof	Computer Science	2	N/A

11	List of senior visiting faculty : Nil		
Sl no	Name of Visiting Faculty	Qualification	Experience
1	Nil	-	-

12	Percentage of lectures delivered and practical classes handled(programme wise)by temporary faculty
NIL	

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13	Student-Teacher Ratio (programme wise)				
Student Teacher ratio Programme wise has been mentioned in the table below:					
Sl no	Programme	Year	No of students	No of teachers	Student: teacher ratio
1	UNDER GRADUATE BE: (Information Science & Engineering)	2016-2017	79	08	10:1
2		2015-2016	98	09	11:1
3		2014-2015	132	10	13:1
4		2013-2014	140	11	13:1
5		2012-2013	140	11	13:1
6		2011-2012	155	11	14:1
Sl no	Programme	Year	No of students	No of teachers	Student: teacher ratio
1	POST GRADUATE MTECH: ()	2016-2017	N/A		
2		2015-2016			
3		2014-2015			
4		2013-2014			
5		2012-2013			

14	Number of academic support staff (technical) and administrative staff: sanctioned and filled	
The below given table gives the cadre wise structure of academic support:		
	Sanctioned	Filled
Administrative staff	1	Nil
Lab instructor	6	Nil
Assistants	6	02

15	Qualifications of teaching faculty with DSc/ D.Lit/ Ph.D/ MPhil / PG.	
Sl no	Faculty Name	Qualification
1	Dr.B.Sreepathi	PhD
2	Mrs. Manjula Patil	M.Tech
3	Mr. Mahantesh H.M	M.Tech
4	Mrs. Pruthvi H M	M.Tech
5	Mrs. Sheela BP	M.Tech
6	Mr. Shivakeshi C	M.Tech
7	Mr. NagaraJ Gowda H	M.Tech
8	Mrs. Santhamma	M.Tech

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16	Number of faculty with ongoing projects from a) National b) International funding agencies and grants received					
Sl no	Title of the project	National / International	Funding agency	Principal investigator / co-investigator	Duration of the project	Amount sanctioned
1	Nil					

17	Departmental projects funded by DST - FIST; UGC; DBT; ICSSR, etc. and total grants received		
Sino	Title of the project	Funding agency	Amount sanctioned
1	Nil		

18	Research Centre /facility recognized by the University
	The Department of Computer science and Engineering is recognised as VTU RESEARCH CENTRE in the year 2006. Since then the research facility is available for research scholars to carry out research in their specific area and publish papers in reputed refereed journals and International conferences.

19	Publications:						
	* Publication per faculty						
	Sl no	Faculty name					No of Publications
	1	Dr.B.Sreepathi					15
	2	Mrs. Manjula Patil					01
	3	Mr. Mahantesh H.M					00
	4	Mrs. Pruthvi H M					01
	5	Mrs. Sheela BP					01
	6	Mr. Shivakeshi C					00
	7	Mr. Nagaraj Gowda H					01
	8	Mrs. Santhamma					01
	* Number of papers published in peer reviewed journals (national /international) by faculty and students						
	Total No. of papers published in International journal : 15						
	Total No. of papers published in National journal :10						
	Sl no	Title	Author	Name of the journal	ISSN/ISBN	YEAR	VOLUME
	Annexure - 19.1						

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•	Number of publications listed in International Database (For Eg. Web of Science, Scopus, Humanities International Complete, Data Database - International Social Sciences Directory, EBSCO host, etc.) - NILL
•	Monographs - NILL
•	Chapter in Books - NILL
•	Books Edited - NILL
•	Books with ISBN/ISSN numbers with details of publishers - NILL
•	Citation Index - NILL
•	SNIP - NILL
•	SJR - NILL
•	Impact factor - NILL
•	h-index - NILL

20	Areas of consultancy and income generated			
	Sl no	Consultancy work	year	Amount generated
	1	Online Exams	2016-17	
	2	Online Exams	2015-2016	10 Lacs
	3	Nill	2014-2015	
	4	Nill	2013-2014	
	5	Nill	2012-2013	
	6	Nill	2011-2012	

21	Faculty as members in		
	a)	National committees	
		Sl No	Committee member
		1	
		2	
		3	
	b)	Faculty name	
		Sl no	Committee member
		1	
		2	
		3	

22	Student projects
	Students are encouraged to carry out research oriented projects which are of social relevance involving state-of-art and inclusive technology.

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Students get an opportunity to use latest tools and technical know-how in the process of executing the project.

- Students are provided the required infrastructure to do their projects (in-house).
- Risks are discussed at each project progress review meeting.
- The Department keeps track of the progress of the project in terms of completion, time and costs.
- To enforce team work, students are asked to form a group of 3 to 4 members to carry out the project work. This enables them to build team spirit and helps in co-ordinating various activities.

a) Percentage of students who have done in-house projects including inter departmental/programme

b) Percentage of students placed for projects in organizations outside the institution i.e. in Research laboratories/Industry/ other agencies

	Sl no	Programme	Year	% of projects done inside the Institute (a)	% of projects done outside Institute (b)
	1	Under Graduate BE ()	2015-2016	100	0
	2		2014-2015	98	2
	3		2013-2014	95	5
	4		2012-2013	90	10
	5		2011-2012	93	7
	4		2012-2013		
	5		2011-2012		

23	Awards / Recognitions received by faculty and students					
	Following Students received awards/recognitions in various events:					
	year	Name of the student	Date	Event Name	Venue	Award
	2015-2016	NILL				
	2014-2015					
	2013-2014					
	2012-2013	SHRIKANTH KUMBAR	05-03-2013	QUIZ	RYMEC	2 nd Prize
	2011-2012	SAGAR	15-03-2012	Shristi-Ad Making TECHSPIN 12	SDM College, Dharwad	1 st Prize
		VIKRAM D	15-03-2012	Movie Making	SDM College, Dharwad	1 st Prize

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		SAGAR P	25-03-2012	Movie Making, ESOTERICA 2K12	BLDEA College, Bijapur	1 st Prize
		SAGAR P	25-03-2012	Roadiez, ESOTERICA 2K12	BLDEA College, Bijapur	3 rd Prize
		VIKRAM D	10-04-2012	Prashnothar (Quiz), Utkarsh 2K12	PDIT College, Hospet	1 st Prize
		BHARATH KUMAR H M	10-04-2012	Prashnothar (Quiz), Utkarsh 2K12	PDIT College, Hospet	1 st Prize

24	List of eminent academicians and scientists / visitors to the department					
		Sl no	department	topic	Resource Person with designation	Date of visit
			NIL			

25	Seminars/ Conferences/Workshops organized & the source of funding					
	a) National	NIL				
	b) International	NIL				

26	Student profile programme/course wise:					
	Name of the Course	Academic year	Application Received	Selected Seats		Pass Percentage
	BE: ()	2015-2016	Admission through KEA/ COMED-K	Male	Female	Eligibility criterion is 40% for SC/ST and 45% for others
		2014-2015				
		2013-2014				
		2012-2013				
		2011-2012				
	M.Tech ()	2015-2016	Admission through KEA			Eligibility criterion is 40% for SC/ST and 45% for others
		2014-2015				
		2013-2014				

27	Diversity of Students
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	Name of the Course	year	% of students from the same state	% of students from other States	% of students from abroad
1	Under graduate BE ()	2015-2016	100	0	NIL
2		2014-2015	98	2	
3		2013-2014	95	5	
4		2012-2013	96	4	
5		2011-2012	93	7	

28 How many students have cleared national and state competitive examinations such as NET, SLET, GATE, Civil services, Defense services, etc.?

State level	No of Students	National level	No of Students
NET		GATE	
SLET		Civil services	
		Defense services	

29 Student progression

Student progression	Percentage against enrolled				
	2014-2015	2013-2014	2012-2013	2011-2012	2010-2011
UG to PG	3	4	10	2	2
PG to MPhil	Nill	Nill	Nill	Nill	Nill
MPhil to Ph.D					
Ph.D to Post Doctoral					
Employed					
Campus selection	25	20	30	15	20
Other than campus recruitment	10	5	10	10	5
Entrepreneurship/Self-employment	0	2	0	5	10

30 Details of Infrastructural facilities

a) Library facilities	
Total no of Volumes	
Journal	
Project Report	
News Letters	
Syllabus	
Question Bank	
Digital Library	

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E-journal	
b) Internet facilities for Staff & Students	
10 Mbps	
c) Class rooms with ICT facility	
d) Laboratories	

31	Number of students receiving financial assistance from college, university, government or other agencies					
	YEAR	Central Government Scholarship for SC/ST (Karnataka)	Fee Concession for OBC students (Karnataka)	Ex-Defence children scholarship	Municipal Scholar	others
	2015-2016					
	2014-2015					
	2013-2014					
	2012-2013					
	2011-2012					

32	Details on student enrichment programs: (special lectures / workshops / seminar) with external experts NIL
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33	Teaching methods adopted to improve student learning
	PPTs, Class room teaching, Assignment, Tutorial class, Remedial class, Seminars, Learning Management System, NPTEL Lectures
	<ul style="list-style-type: none"> ➤ Identifying similarities and differences. ➤ Summarizing and note-taking. ➤ Reinforcing effort and providing recognition. ➤ Homework and practice. ➤ Cooperative learning.

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- Setting objectives and providing feedback.
- Generating and testing hypotheses.
- Questions, cues, and advance organizer.
- By providing assignments and having appropriate formats to verify the same.
- Providing well equipped laboratories.

34 Participation in Institutional Social Responsibility (ISR) and Extension activities

Academic Year 2015-16

sno	Date	Event
-----	------	-------

Academic Year 2014-15

slno	Date	Event
------	------	-------

Academic Year 2013-14

slno	Date	Event
------	------	-------

Academic Year 2012-13

gino	Date	Event
------	------	-------

Academic Year 2011-12

35 SWOC analysis of the department and Future plans

Strengths	
-----------	--

- | | |
|--|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| | <ul style="list-style-type: none"> • Well Equipped Laboratories • Availability of Licensed Software • Well Qualified Experienced Faculty • EDUSAT facility • Wi-Fi facility • Students participation in National/ State level project exhibitions |
|--|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

Weakness

- | | |
|--|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| | <ul style="list-style-type: none"> • Deficiency of Faculty cadre ratio as per norms • Consultancy to be Improved • Departmental Alumni interaction to be strengthened |
|--|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

Opportunity

- To Participate in Various Technical STP/FDP /Workshop / Seminars

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	<ul style="list-style-type: none">• Faculties are encouraged to pursue Higher Studies and Publish Books/Papers.
	Challenges
	<ul style="list-style-type: none">• 100% Placement• Graduating the Students with poor CET Admission Ranking in a stipulated period of 4 years.• To bridge the gap between Academy and Industry.• Faculty knowledge up gradation with the current technology.

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DEPARTMENT OF ELECTRONICS AND INSTRUMENTATION ENGINEERING

Evaluative Report of the Departments

1	Name of the department	ELECTRONICS & INSTRUMENTATION ENGG
2	Year of Establishment	1992
3	Names of Programmes / Courses offered (UG, PG, M.Phil., Ph.D., Integrated Masters, Integrated Ph.D., etc.)	UG
4	Names of Interdisciplinary courses and the departments/units involved	—
5	Annual/ semester/choice based credit system (programme wise)	SEMESTER (V-VIII SEM) / CBCS (I-IV SEM)
6	Participation of the department in the courses offered by other departments	YES
7	Courses in collaboration with other universities, industries, foreign institutions, etc.	—
8	Details of courses/programmes discontinued (if any) with reasons	The UG programme of E&IE Dept. is closed due to poor admissions W.E.F 2016-2017.
9	Number of Teaching posts	5

	Sanctioned	Filled
Professors	1	—
Associate Professors	2	1
Asst. Professors	5	4

10	Faculty profile with name, qualification, designation, specialization, (D.Sc./D.Litt. /Ph.D. / M. Phil. etc.,)
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Name	Qualification	Designation	Specialization	No. of Years of Experience	No. of Ph.D. Students guided for the last 4 years
Rakhee Patil	M.E	Associate Professor	M.E(EM&I)	17 years	-----
Girija Vani.G	M.Tech	Assistant Professor	M.Tech(DE)	13 years	-----
Gayathri J	M.Tech	Assistant Professor	M.Tech(DIT)	6 Years	-----
Ashwini.K	M.Tech	Assistant Professor	M.Tech(DE)	2.5 years	-----
Mallikarjuna swamy M. L	M.Tech	Assistant Professor	M.Tech(DC)	2 years	-----

11 List of senior visiting faculty

Sl no	Name of Visiting Faculty	Qualification	Experience
1	-----	-----	-----

12 Percentage of lectures delivered and practical classes handled(programme wise)by temporary faculty

13 Student -Teacher Ratio (programme wise)

Student Teacher ratio Programme wise has been mentioned in the table below:

Sl no	Programme	Year	No of students	No of teachers	Student: teacher ratio
1	UNDER GRADUATE BE (E&IE/IT)	2015-2016	120	5	1:24
2		2014-2015	120	7	1:18
3		2013-2014	120	8	1:15
4		2012-2013	120	8	1:15
5		2011-2012	120	8	1:15

Sl no	Programme	Year	No of students	No of teachers	Student: teacher ratio
-------	-----------	------	----------------	----------------	------------------------

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1	POST GRADUATE MTECH: ()	2015-2016	-----	-----	-----
2		2014-2015	-----	-----	-----
3		2013-2014	-----	-----	-----
4		2012-2013	-----	-----	-----
5		2011-2012	-----	-----	-----

- 14 Number of academic support staff (technical) and administrative staff, sanctioned and filled

The below given table gives the cadre wise structure of academic support:

	Sanctioned	Filled
Administrative staff	-----	-----
Lab instructor	3	1
Assistants	3	1

- 15 Qualifications of teaching faculty with DSc/ D.Lit/ Ph.D/ MPhil / PG.

Sl no	Faculty Name	Qualification
1	Rakhee Patil	PG (M.E)
2	Girja Vani.G	PG (M.Tech)
3	Gayathri J	PG (M.Tech)
4	Ashwini.K	PG (M.Tech)
5	Mallikarjuna swamy M. L.	PG (M.Tech)

- 16 Number of faculty with ongoing projects from a) National b) International funding agencies and grants received

Sl no	Title of the project	National / International	Funding agency	Principal investigator/ co-investigator	Duration of the project	Amount sanctioned
1	-----	-----	-----	-----	-----	-----
2	-----	-----	-----	-----	-----	-----
3	-----	-----	-----	-----	-----	-----

- 17 Departmental projects funded by DST - FIST, UGC, DBT, ICSIR, etc. and total grants received

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SNo	year	Title of the project	Funding agency	Amount sanctioned
1	2015-2016	Fault Detection And Protection Of Induction Motors Using Sensors.	KSCST, Bengaluru	5000/-
		Portable Wireless Head-Movement Controlled Human-Computer Interface for People With Disabilities.		4000/-
2	2014-2015	Advanced Accident avoidance and Identification System for Automobiles.	KSCST, Bengaluru	6000/-
3	2013-2014	Wireless Sensor Network Based Water Quality Monitoring System Using Zigbee.	KSCST, Bengaluru	3500/-
4	2012-2013	Design Of Extensive Mining Environment Monitoring System Using Wireless Sensor Networks.	KSCST, Bengaluru	3500/-
5	2011-2012	Bluetooth Energy Meter.	KSCST, Bengaluru	5000/-
		Smart Helmet.		6000/-
		Design of Manumatic Geared System with Locatto Black Box Security System.		5000/-

18	Research Centre /facility recognized by the University
	NIL

19	Publications:
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• Publication per faculty							
SL No		Faculty name			No of Publications		
1		Rakhee Patil			1		
2		Girija Vani,G			3		
3		Gayathri J			4		
4		Ashwini.K			2		
5		Mallikarjuna swamy M. L			1		
• Number of papers published in peer reviewed journals (national /international) by faculty and students							
Total No. of papers published in International Journal : 11							
Total No. of papers published in National Journal : nil							
Sl no		Title	Author	Name of the Journal	ISSN/ISBN	YEAR	VOLUME
1		Mems-Biomedical Applications; Opportunities And Challenges	Rakhee Patil,	IJESC	ISSN:22501371	2013	
2		Implementation of voice control automated wheel chair on NI myRIO platform using NI labview	GIRIJA VANIG	International Journal Of advanced technology and innovative research ,	ISSN:2348-2370	2015	
3		PROTOTYPE implementation of density based traffic light control system using NI labview and NI myDAQ	GIRIJA VANIG	International Journal Of advanced technology and innovative research ,	ISSN:2348-2370	2015	
4		Mems-Biomedical Applications; Opportunities And Challenges	GIRIJA VANIG	IJESC	ISSN:22501371	2013	
		Path planning		International			

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5	for time constrained data gathering in wireless sensor networks using mobile nodes.	Gayathri. J	Journal Of Advance Research In computer And Communication Engineers (IARCEE), Impact factor: 4.582	ISSN:2319-5940	2013	Volume 4, Issue 8
6	Automatic Recognition Of Object Detection Using MATLAB.	Gayathri. J	International Journal Of Advance Research In Electronics And Communication Engineers (IARECE).	ISSN:2278-909X	2013	Volume 2, Issue 8
7	Texture Based Image Classification.	Gayathri. J	International Journal Electronics Communication And Computer Engineering (IECCE)	ISSN: 2278-4209.	2013	Volume-4 Issue-2
8	Analysis Based Multicloud Interconnection On Sky Computing.	Gayathri. J	International Journal Of Electronics Communication And Computer Engineering	ISSN: 2278-4205	2013	Volume-4 Issue-2
9	Path planning for time constrained data gathering in wireless sensor networks using mobile nodes.	Ashwini.K.	International Journal Of Advance Research In computer And Communication Engineers (IARCEE), Impact factor: 4.582	ISSN:2319-5940	2013	Volume 4, Issue 8
10	Automatic Recognition Of Object Detection Using MATLAB.	Ashwini.K.	International Journal Of Advance Research In Electronics And Communication Engineers (IARECE).	ISSN:2278-909X	2013	Volume 2, Issue 8
11	Fractal Image Compression	Malikarjuna Swamy.M.L	International Journal Of	ISSN: 2278-067X	2012	Volume 1, Issue 4

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	Technique Using Level Scaling	Fixed Of	Engineering Research And Development			
	Number of publications listed in International Database (For Eg: Web of Science, Scopus, Humanities International Complete, Dare Database - International Social Sciences Directory, EBSCO host, etc.)					
	• Monographs					
	Provide list					
	• Chapter in Books					
	Provide list					
	• Books Edited					
	Provide list					
	• Books with ISBN/ISSN numbers with details of publishers					
	Provide list					
	• Citation Index					
	Provide list					
	• SNIP					
	Provide list					
	• SJR					
	Provide list					
	• Impact factor					
	Provide list					
	• h-index					
	Provide list					

20	Areas of consultancy and income generated			
	Sl no	Consultancy work	year	Amount generated
	1	-----	2015-2016	-----
	2	-----	2014-2015	-----
	3	-----	2013-2014	-----
	4	-----	2012-2013	-----
	5	-----	2011-2012	-----

21	Faculty as members in
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a)	National committees		
	Sl no	Faculty name	Committee member
	1	Rakhee Patil	ISTE
	2	Girija Vani.G	ISTE
	3	Gayatri J.	ISTE
	4	Ashwini K.	ISTE
	5	Mallikarjuna swamy M. L.	ISTE
b)	International committees		
	Sl no	Faculty name	Committee member
	1	NIL	

22	Student projects				
	<p>Students are encouraged to carry out research oriented projects which are of social relevance involving state-of-art and inclusive technology. Students get an opportunity to use latest tools and technical know-how in the process of executing the project.</p> <ul style="list-style-type: none"> • Students are provided the required infrastructure to do their projects (in-house). • Risks are discussed at each project progress review meeting. • The Department keeps track of the progress of the project in terms of completion, time and costs. • To enforce team work, students are asked to form a group of 3 to 4 members to carry out the project work. This enables them to build team spirit and helps in co-ordinating various activities. <p>a) Percentage of students who have done in-house projects including inter departmental/programme</p> <p>b) Percentage of students placed for projects in organizations outside the institution i.e.in Research laboratories/Industry/ other agencies</p>				
•	Sl no	Programme	Year	% of projects done inside the Institute (a)	% of projects done outside Institute (b)
	1	Under Graduate BE (E&IE/IT)	2015-2016	100%	—
	2		2014-2015	100%	—
	3		2013-2014	100%	—
	4		2012-2013	100%	—
	5		2011-2012	100%	—
	1	Post Graduate M.Tech()	2015-2016	—	—
	2		2014-2015	—	—
	3		2013-2014	—	—
	4		2012-2013	—	—
	5		2011-2012	—	—

23 Awards / Recognitions received by faculty and students

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Following Students received awards/recognitions in various events.						
year	Name of the student	Date	Event Name	Venue	Award	
2015-2016	-----	-----	-----	-----	-----	
2014-2015	-----	-----	-----	-----	-----	
2013-2014	-----	-----	-----	-----	-----	
2012-2013	-----	-----	-----	-----	-----	
2011-2012	-----	-----	-----	-----	-----	

24 List of eminent academicians and scientists / visitors to the department						
Sl no	year	Department	Topic	Resource Person with designation	Date of visit	
1	2015-2016	Electronics & Instrumentation Engineering	Recent Trends in Electronics & Communication	Prof. B.A Patil Director, R&D, Think & Ink Foundation, Bengaluru. Mr. Ayyanna Gurikar & Mr. Anil Pradhan Director's Qgeeks, Bengaluru. Mr. Jagadeesh Kottur Shettar Staff Engg. Broadcom, Bengaluru.	25/01/2016 to 30/01/2016	
2	2014-2015	Electronics & Instrumentation Engineering	Circuit Analysis And Simulation	Prof. P.M. Chandrashekariah CIT, Gubbi. Prof. Rohini Patil Dept. of ECE BVB College of Engg. Hubli K.H. Manjunath Asst professor, PDIT, Hosapete. Prof. A.G. Suresh BTL Institute of Technology and management, Bengaluru.	20/07/2015 To 23/07/2015	
3	2013-	Instrumentation	Industrial	Mr. Sreekanth G		

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		2014	Technology	Automation Using Pc Based PLC'S	Operations lead in Honey well automation, PUNE Mr. Jayakrishnan K S Project lead in Honey well automation, PUNE Mr. Harish Reddy Project lead in Honey well automation, PUNE	25/10/2013 to 26/10/2013
		2013-2014	Instrumentation Technology	Embedded Design Platform Using MSP430	Mr.Yogesh Ragunath Application Engineer (NI), Bangalore.	25/3/2014
	4	2012-2013	Instrumentation Technology	Advanced Biomedical Instrumentation Opportunities And Challenges	Shanthamurthy N Biomedical Engineer, VIMS Hospital, Bellary	10/3/2012 to 14/3/2012
	5	2011-2012	Instrumentation Technology	Industrial Automation & Control	Y. Shivashankara Reddy ITC, General Manager, Telecom Dept. Bellary. K. Ramesh Babu Manager, JSW Energy Ltd, Toranagallu.	18/2/2011- 20/2/2011

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a) National							
	Sl no	Activities	Name of the Short Term Course / Training /FDP Conducted	Funding agency	Amount	Duration Month and year	No of Participants
	1	FDP	Industrial automation & control.	VTU-VGST	1,60,000/-	3days, 18 th - 20 th Feb 2011	40
	2	FDP	Advanced biomedical instrumentation opportunities & challenges.	VTU-VGST	2,00,000/-	5days, 10 th - 14 th March 2012	40
b) International							
	Sl no	Activities	Name of the Short Term Course / Training /FDP Conducted	Funding agency	Amount	Duration Month and year	No of Participants
	NIL						

26	Student profile programme/course wise					
	Name of the Course	Academic year	Application Received	Selected Seats		Pass Percentage
				Male	Female	
	BE (E&IE/IT)	2015-2016	Admission through KEA/ COMED-K	2	5	Eligibility criterion is 40% for SC/ST and 45% for others
		2014-2015		4	11	
		2013-2014		7	15	
		2012-2013		5	10	
		2011-2012		2	5	
	M.Tech ()	2015-2016	Admission through KEA	—	—	Eligibility criterion is 40% for SC/ST and 45% for others
		2014-2015		—	—	
		2013-2014		—	—	

27	Diversity of Students
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	Name of the Course	year	% of students from the same state	% of students from other States	% of students from abroad
1	Under graduate BE (E&IE/IT)	2015-2016	100.00%	0.00%	NIL
2		2014-2015	100.00%	0.00%	
3		2013-2014	100.00%	0.00%	
4		2012-2013	95.83%	4.17%	
5		2011-2012	100.00%	0.00%	

28	How many students have cleared national and state competitive examinations such as NET, SLET, GATE, Civil services, Defense services, etc.?			
	State level	No of Students	National level	No of Students
	NET	-----	GATE	-----
	SLET	-----	Civil services	-----
			Defense services	-----

29	Student progression					
	Student progression	Percentage against enrolled				
		2014-2015	2013-2014	2012-2013	2011-2012	2010-2011
	UG to PG	3%	-----	6%	13%	-----
	PG to MPhil	-----	-----	-----	-----	-----
	MPhil to Ph.D	-----	-----	-----	-----	-----
	Ph.D to Post Doctoral	-----	-----	-----	-----	-----
	Employed					
	Campus selection	3%	22%	8.8%	24%	25%
	Other than campus recruitment	46%	61%	76%	27%	36%
	Entrepreneurship/Self-employment	6%	-----	-----	3%	-----

30	Details of Infrastructural facilities
	a) Library facilities

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Total no of Volumes	1178
Journal	24
Project Report	40
News Letters	
Syllabus	06scheme(IT), 10scheme(IT), 10scheme(E&IE), CBCS scheme(E&IE)
Question Bank	Previous year question papers are available in the department.
Digital Library	\\ 192.168.8.4\
E-journal	35
b) Internet facilities for Staff & Students	
02 Systems - 2Mbps Leased Line & 10Mbps Leased Line.	
c) Class rooms with ICT facility-03	
d) Laboratories-03	

31	Number of students receiving financial assistance from college, university, government or other agencies					
	YEAR	Central Government Scholarship for SC/ST (Karnataka)	Fee Concession for OBC students (Karnataka)	Ex-Defence children scholarship	Municipal Scholar	others
	2015-2016	335	701	--	06	02
	2014-2015	336	227	--	22	17
	2013-2014	322	497	--	28	02
	2012-2013	188	466	--	14	04
	2011-2012	379	261	--	04	04
32	Details on student enrichment programmes (special lectures / workshops /seminar) with external experts					
	Sl.	Topic	Date	Resource Person with		

SELF STUDY REPORT

No.			designation
1.	Industrial Automation Using Pc Based PLC'S.	18/2/2011-20/2/2011	Y. Shivashankara Reddy ITC, General Manager, Telecom Dept. Bellary. K. Ramesh Babu Manager, JSW Energy Ltd, Toranagallu.
2.	Embedded Design Platform Using MSP430	25/3/2014	Mr.Yogesh Ragunath Application Engineer (NI), Bangalore.
33	Teaching methods adopted to improve student learning		
	<p>PPTs, Class room teaching, Assignment, Tutorial class, Remedial class, Seminars.</p> <p>Learning Management System, NPTEL Lectures</p> <ul style="list-style-type: none"> ➤ Identifying similarities and differences. ➤ Summarizing and note-taking. ➤ Reinforcing effort and providing recognition. ➤ Homework and practice. ➤ Cooperative learning. ➤ Setting objectives and providing feedback. ➤ Generating and testing hypotheses. ➤ Questions, cues, and advance organizer. ➤ By providing assignments and having appropriate formats to verify the same. ➤ Providing well equipped laboratories. 		

34	Participation in Institutional Social Responsibility (ISR) and Extension activities		
	Academic Year 2015-16		
	sIno	Date	Event

11/11/2011

RAO BAHADURY MAHABALESWARAPPA ENGINEERING COLLEGE, BALAJI 323

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	<ul style="list-style-type: none"> To further improve collaborative programmes, funded research projects, networking with industry. Increasing further to help the weaker students, improving their skills and employability. Effective, Efficient, and collective academic leadership. Qualified, experienced, stable, committed and students-caring faculty. Very active Alumni Association with large membership and several alumni who are in very senior executive positions.
Weakness	
	<ul style="list-style-type: none"> Industrial consultancy is to be strengthened considerably. Potential of networking with other institutions is not yet fully exploited. Industry-Institute Interaction needs to be strengthened. Lack of flexibility for making changes in curriculum as per industry requirements as the institute is affiliated to university.
Opportunity	
	<ul style="list-style-type: none"> Seeking autonomous status from the University in order to improve the academics with proper updates and quality of education based on OBE system. Getting accreditation from NAAC and NBA in order to ensure good quality in teaching-learning system.
Challenges	
	<ul style="list-style-type: none"> Difficult to attract bright faculty because of better opportunities in industries and trend of migrating to metro cities. Change in government's policies regarding admissions and fee structure.

SELF STUDY REPORT

DEPARTMENT OF MANAGEMENT STUDIES

Evaluative Report of the department

1	Name of the department	Department of Management Studies
2	Year of Establishment	2006
3	Names of Programmes / Courses offered (UG, PG, M.Phil., Ph.D., Integrated Masters, Integrated Ph.D., etc.)	PG-MBA
4	Names of Interdisciplinary courses and the departments/units involved	-----
5	Annual/ semester/choice based credit system (programme wise)	Semester
6	Participation of the department in the courses offered by other departments	Teaching management related subjects i.e Management & Entrepreneurship and Constitution of India and profession ethics
7	Courses in collaboration with other universities, industries, foreign institutions, etc.	nil
8	Details of courses/programmes discontinued (if any) with reasons	-----
9	Number of Teaching posts	07

	Sanctioned	Filled
Professors	01	00
Associate Professors	02	00
Asst. Professors	05	07

SELF STUDY REPORT

10 Faculty profile with name, qualification, designation, specialization. (D.Sc./D.Litt./Ph.D./ M. Phil. etc.)					
Name	Qualification	Designation	Specialization	No. of Years of Experience	No. of Ph.D. Students guided for the last 4 years
Nil	Nil	Nil	Nil	Nil	Nil

11 List of senior visiting faculty

12 Percentage of lectures delivered and practical classes handled (programme wise) by temporary faculty —Nil—

13 Student-Teacher Ratio (programme wise)

Student Teacher ratio Programme wise has been mentioned in the table below:

Sl no	Programme	Year	No of students	No of teachers	Student: teacher ratio
1	POST GRADUATE MBA: (1-15)	2016-2017	50	07	1:7
2		2015-2016	64	08	1:8
3		2014-2015	56	08	1:7
4		2013-2014	46	08	1:6
5		2012-2013	75	08	1:10
6		2011-2012	87	08	1:11

14 Number of academic support staff (technical) and administrative staff; sanctioned and filled- 1

The below given table gives the cadre wise structure of academic support:

	Sanctioned	Filled
Administrative staff		NIL
Lab instructor		NIL
Assistants		1

SELF STUDY REPORT

Sl no	Faculty Name	Qualification
1	Vinay Gadigi	B.E, MBA (P.HD)
2	Hiremath V M R	MBA
3	Viswanath Reddy D	MBA
4	Lakshmi V	MBA
5	Eryhad Ali	MBA
6	Manasa	MBA
7	Praveen Joshi	MBA

16 Number of faculty with ongoing projects from a) National b) International funding agencies and grants received—NIL—

17 Departmental projects funded by DST - FIST, UGC, DBT, ICSSR, etc. and total grants received—NIL—

18 Research Centre / facility recognized by the University

The Department of Management studies has been recognition as Research Centre under VTU in February 2016-2017.

19 Publications

*** Publication per faculty**

Sl no	Faculty name	No of Publications
1	Dr.Veerabhadrapa H	5
2	Dr.Shahesda Bannu S	6
3	Ravi Kumar J S	1
4	Vidya M	1
5	Vinay Gadigi	1

*** Number of papers published in peer reviewed journals (national /international) by faculty and students**

Total No. of papers published in International Journal : 13

*** Number of publications listed in International Database (For Eg: Web of Science, Scopus, Humanities International Complete, Daro Database - International Social Sciences Directory, EBSCO host, etc.)**

—————NIL—————

*** Monographs**

Provide list—NIL—

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* Chapter in Books	
Provide list	NIL
* Books Edited	
Provide list	NIL
* Books with ISBN/ISSN numbers with details of publishers	
1.	'Management and Entrepreneurship', Published by New Age International Publishers, New India, 2008, ISBN: 978-81-224-2602-1.
2.	Introduction to Operations Research , Published by New Age International shers, New Delhi, India, 2012, ISBN: 978-81-224-3335-7.
	Workplace Ethics & Value Systems" published by Thakur Publishers, Bengaluru, India, ISBN:978-163-892-6.
3.	Ris Risk management, published by Thakur Publishers, Bengaluru,2014, ISBN: 978-93-83922-08-6
4.	Risk management and Insurance, published by Thakur Publishers, Bengaluru,2016, ISBN: 978-933-889-6
	Work place ethics and value systems, published by Thakur Publishers, Bengaluru, 2016 ISBN-978-93-892-6.(1-to 288 pages)
	*Company Law and Secretarial Practice published by Sara Book Publication, Ahmedabad, rat with 978-1-73034-716-0
* Citation Index	
	Dr. Veerabhadrapa Havinal. No of citations = 7
* SNIP	
	Nil
* SJR	
	Nil
* Impact factor	
	Nil
* h-index	
	Nil

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21 Faculty as members in				
a) National committees				
	Sl no	Faculty name	Committee member	
	1	Dr. Shaheeda Banu.S	1. FELLOW MEMBER of Indian Society of Business Management 2. Life member in MTC Global	
	2	Mrs. S.Renuka	Life member in MTC Global	
	3	Mr. Viswanath Reddy D	Life member in MTC Global	

22 Student projects					
<p>Students are encouraged to carry out research oriented projects which are of social relevance involving state-of-art and inclusive technology. Students get an opportunity to use latest tools and technical know-how in the process of executing the project.</p> <ul style="list-style-type: none"> • Students are provided the required infrastructure to do their projects (in-house). • Risks are discussed at each project progress review meeting. • The Department keeps track of the progress of the project in terms of completion, time and costs. • To enforce team work, students are asked to form a group of 3 to 4 members to carry out the project work. This enables them to build team spirit and helps in co-coordinating various activities. <p>a) Percentage of students who have done in-house projects including inter departmental/programme</p> <p>b) Percentage of students placed for projects in organizations outside the institution i.e. in Research laboratories/Industry/ other agencies</p>					
*	Sl.no	Programme	Year	% of projects done inside the Institute (a)	% of projects done outside Institute (b)
	1	Post Graduate MBA()	2015-2016		100
	2		2014-2015		100
	3		2013-2014		100
	4		2012-2013		100
	5		2011-2012		100

SELF STUDY REPORT

23	Awards / Recognitions received by faculty and students					
	1. Dr. Shaheeda Banu S Awarded as Distinguished Management Teacher from MTC Global, Bengaluru Following Students received awards/recognitions in various events					
	year	Name of the student	Date	Event Name	Venue	Award
	2016-2017	Shubam Trivedi Jyothi K Pavan Kumar V.N	6.11.2016	Gender Champion Debate Competition	E & IE eminar Hall	II PRIZE
	2015-2016	GOWRI THAMEEM	03/03/2016	BUDGET ANALYSIS	AKIM, BALLARI	II PRIZE
	2014-2015	CHAITRA .S		EXPORT AWARENESS PROGRAMME- QUIZ	VSKU/ BALLARI	II PRIZE
	2013-2014	RAJASHEKAR CHAITRA .S NAGINA RAGASHREE SHRUTI		DEBATE	AKIM, BALLARI	I PRIZE
	2012-2013	CHANDANA		DEBATE	AKIM, BALLARI	II PRIZE
	2011-2012	NIL				

24 List of eminent academicians and scientists / visitors to the department						
Sl no	Department	topic	Resource Person with designation	Date of visit		
01	MBA	INTERNATIONAL BUSINESS	Dr. CYNTHIA MENEZES	26/02/2014		
02	MBA	SPSS	Dr. Havinal Veerabhadrappe	29/09/2015 to 2/10/2015		
03	MBA	PERSONALITY DEVELOPMENT	Mr. VISHWANATH	SEP. 2012		

SELF STUDY REPORT

25 Student profile programme/course wise						
	Name of the Course	Academic year	Application Received	Selected Seats		Pass Percentage
				Male	Female	
	BE ()	2015-2016	Admission through KEA/ COMED-K	NA	NA	Eligibility criterion is 40% for SC/ST and 45% for others
		2014-2015				
		2013-2014				
		2012-2013				
		2011-2012				
		2016-2017		11	13	
	MBA	2015-2016	Admission through KEA/PGI CET/KMAT	19	16	Eligibility criterion is 40% for SC/ST and 45% for others
		2014-2015		21	14	
		2013-2014		07	14	

27 Diversity of Students (ON THE BASIS OF THE DEGREE PASSING OUT UNIVERSITY)					
	Name of the Course	year	% of students from the same state	% of students from other States	% of students from abroad
	Post graduate MBA	2016-2017	91.67	8.33	NIL
1		2015-2016	91.5	8.5	
2		2014-2015	95	5	
3		2013-2014	100	NIL	
4		2012-2013	100	NIL	
5		2011-2012	98	2	

28 How many students have cleared national and state competitive examinations such as NET, SLET, GATE, Civil services, Defense services, etc.?				
	State level	No of Students	National level	No of Students
	NET	NIL	GATE	NA
	SLET	NIL	Civil services	NIL
			Defense services	NIL

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29	Student progression						
	Student progression	Percentage against enrolled					
		2016-2015	2015-2014	2013-2014	2012-2013	2011-2012	2010-2011
	UG to PG	NA	NA	NA	NA	NA	NA
	PG to MPhil	NIL	NIL	NIL	NIL	NIL	NIL
	MPhil to Ph.D	NA	NA	NA	NA	NA	NA
	Ph.D to Post Doctoral	NIL	NIL	NIL	NIL	NIL	NIL
Employed							
	Campus selection		00	00	00	34	00
	Other than campus recruitment						
	Entrepreneurship/Self-employment						

30	Details of Infrastructural facilities	
	a) Library facilities	
	Total no of Volumes	8000 (APPROX.)
	Journal	21
	Project Report	230
	News Letters	BI-ANNUAL
	Syllabus	CURRICULUM DESIGNED BY VTU
	Question Bank	AVAILABLE
	Digital Library	AVAILABLE
	E-journal	AVAILABLE
	b) Internet facilities for Staff & Students	
	AVAILABLE IN LAB	
	c) Class rooms with ICT facility	
	AVAILABLE	
	d) Laboratories	
	31 DESKTOPS WITH P4 CONFIGURATION	

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31	Number of students receiving financial assistance from college, university, government or other agencies					
	YEAR	Central Government Scholarship for SC/ST (Karnataka)	Fee Concession for OBC students (Karnataka)	Ex-Defence children scholarship	Municipal Scholar	others
	2015-2016	392	690	-	40	72
	2014-2015	336	570	-	30	56
	2013-2014	322	420	-	28	79
	2012-2013	188	406	-	14	64
	2011-2012	379	242	-	04	24

32	Details on student enrichment programmes (special lectures / workshops / seminar) with external experts			
	Slno	Topic	Date	Resource Person with designation
	01	INTERNATIONAL BUSINESS	26/02/2014	Dr. CYNTHIA MENEZES, professor canara business school, bengaluru
	02	Workshop on SPSS	30 th SEP to 2 nd VOV 2015	Dr. Veerabjhadrapa Havinal, Prof, RYMEC Ballari

33	Teaching methods adopted to improve student learning
	<p>PPTs, Class room teaching, Assignment, Tutorial class, Remedial class, Seminars.</p> <p>Learning Management System, NPTEL Lectures</p> <ul style="list-style-type: none"> ➤ Identifying similarities and differences. ➤ Summarizing and note-taking. ➤ Reinforcing effort and providing recognition. ➤ Homework and practice. ➤ Cooperative learning. ➤ Setting objectives and providing feedback. ➤ Generating and testing hypotheses. ➤ Questions, cues, and advance organizer. ➤ By providing assignments and having appropriate formats to verify the same. ➤ Providing well equipped laboratories.

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34	Participation in Institutional Social Responsibility (ISR) and Extension activities		
	Academic Year 2015-16		
	sno	Date	Event
	Academic Year 2014-15		
	sno	Date	Event
	Academic Year 2013-14		
	sno	Date	Event
	Academic Year 2012-13		
	sno	Date	Event
	Academic Year 2011-12		

35	SWOC analysis of the department and Future plans		
	Strengths		
	<ul style="list-style-type: none"> • Excellent Teaching Faculty- well qualified with Industry experience • Excellent Infrastructure Facility • Good Library facility including e-journals 		
	Weakness		
	<ul style="list-style-type: none"> • Non availability smart class rooms • Less frequent industry interaction. • Low proper employee retention. 		
	Opportunity		
	<ul style="list-style-type: none"> • Extending smart class rooms • Tie-up with industries 		
	Challenges		
	<ul style="list-style-type: none"> • More competition because of mushrooming of MBA colleges in the State • Less job opportunities for fresher 		

FUTURE PLANS

- Speeding up R & D activities
- Generating funds from funding agencies through projects

ANNEXURES

Total No. of papers published in National Journal :						
S l n o	Title	Author	Name of the Journal	ISSN/ISB N	YEAR	VOLUM E
1	Zone of Tolerance for the Banks: Exploring the Service Quality Attributes to be Improved	Dr.Veerabhadra ppa H	Research Journal of Economics and Business Studies	(ISSN: 2251- 1555),	June (2013)	Vol. 02, No. 08, pp. 98 - 109.
	Demographic Discriminator s of Service Quality in Commercial Banks.	Dr.Veerabhadra ppa H	Research Journal of Social Science and Manageme nt	(ISSN: 2251- 1571),	May (2013)	Vol. 03, No. 01, pp. 148 - 159.
	Relation Between Zone of Tolerance and Importance of Service Quality Attributes: An Empirical Study of Commercial	Dr.Veerabhadra ppa H	Asia Pacific Journal of Marketing & Manageme nt Review	(ISSN: 2319- 2836),	July (2013)	Vol.2 (7), pp. 92 - 106.

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	Banks					
	Prioritizing Service Quality Dimensions in Private Sector Banks	Dr.Veerabhadra ppa H	International Journal of Marketing, Financial Services & Management Research	(ISSN 2277-3622),	June (2013),	Vol.2, No. pp. 176 - 188. 6
	RANKING OF PUBLIC SECTOR BANKS FROM CUSTOMER VIEW POINT USING TOPSIS	Dr.Veerabhadra ppa H	ZENITH International Journal of Business Economics & Management Research	(ISSN 2249-8826),	July (2013)	Vol.3 (7)
	"Reviewing of Social responsibility accounting in the contemporary scenario."	Dr.Shaheeda Banu.S	International Multidisciplinary e-Journal	ISSN No.2277-4262, Issue-VIII, Page -398	2015	Volume IV, SJIF-081,
	"Effect of TM& loop length on drupe co-	Dr.Shaheeda Banu.S	International Journal of advance research in Engineering &	ISSN :0976-6480 (print),online ISSN 0976-6499,	Jan. 2015	vol-6, Issue-I

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	efficient of single jersey knitted fabrics		Technology (UARET)			
	"Empowering Women Through Education"	Dr. Shaheeda Banu.S	International Global Research Analysis Journal of management	ISSN No. 2277-8160	Issue: 9, Sept 2013	Volume:2, (Page 101-103)
	"Revisiting CSR and the government's stance in the contemporary scenario" ISSN Print : 0976-6502, ISSN Online: 0976-6510 Volume 4, Issue 4 (July-Aug 2013) (Page 170-179). Journal Impact Factor (2013): 6.9071 calculated by GISI	Dr. Shaheeda Banu.S	IAEME International Journal of Management	ISSN Print : 0976-6502, ISSN Online: 0976-6510 (Page 170-179). Journal Impact Factor (2013): 6.9071 calculated by GISI	Issue 4 (July-Aug 2013)	Volume 4,
	Thrust areas in knowledge	Dr. Shaheeda Banu.S	IAEME International Journal of	ISSN Print: 0976-	Issue 3 (2013)	Volume:4, (Page 170-176). Journal

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	management in hospitality industry"		Management	6502, ISSN Online: 0976-6510 6.9071 calculated by GISI.		Impact Factor (2013):
	Discriminators of Service Quality in Commercial Banks"	Dr. Shaheeda Bantu.S		ISSN-2251-1571	May-2013	Volume: 03, Number: 01, (page 148 to 159)
	Thrust areas in knowledge management in hospitality industry"	Vidya M.	IAEME International Journal of Management	ISSN Print: 0976-6502, ISSN Online: 0976-6510 6.9071 calculated by GISI.	Issue 3 (2013)	Volume 4, (Page 170-176), Journal Impact Factor (2013):
	"Growth and Challenges of Retail Industry in India: An analysis"	Ravikumar J.S	International Multidisciplinary e-Journal	ISSN No.2277-4262, Issue-VIII, Page -154.	2015	Volume IV, SJIF-081,

DEPARTMENT OF BASIC SCIENCES**Evaluative Report of the department**

1	Name of the department	BASIC SCIENCES
2	Year of Establishment	1980
3	Names of Programmers' /Courses offered (UG, PG, M. Phil., Ph.D., Integrated Masters: Integrated Ph.D., etc.)	U. G.
4	Names of Inter disciplinary courses and the departments /units involved	Nil
5	Annual/semester/choice based credit system (programme wise)	Nil
6	Participation of the department in the courses offered by other departments	Nil
7	Courses in collaboration with other universities, industries, foreign institutions, etc.	Nil
8	Details of courses / programmers' discontinued (if any) with reasons	Nil
9	Number of Teaching posts	17

	Sanctioned Physics	Filled
Professors	NIL	NIL
Associate Professors	NIL	NIL
Assistant Professors	04	04

	Sanctioned Chemistry	Filled
Professors	02	02
Associate Professors	NIL	NIL
Assistant Professors	02	02

	Sanctioned Mathematics	Filled
Professors	01	01
Associate Professors	04	04
Assistant Professors	04	04

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Faculty profile with name, qualification, designation, specialization, (D.Sc./D.Litt./Ph.D./ M. Phil., etc.)					
Name	Qualification	Designation	Specialization	Nr. of Years of Experience	No. of Ph.D. Students Guided for the last 4 years
Physics					
Dr. NAGABHUSHANA N M	M.Sc., M.Phil., Ph.D. D.	Assistant Professor	Nuclear Physics	15	Presently guiding 06
Dr. NAGARAJ M K	M.Sc., M. Phil., Ph. D.	Assistant Professor	Nuclear Physics	10	Nil
Mrs. BHAGYA K R	M. Sc., B.Ed. (Ph. D.)	Assistant Professor	Bio physics	08	Nil
Mr. ANANDA THIPPERUDRA	M. Sc., B.Ed.(Ph. D.)	Assistant Professor	Electronics	05	Nil
Chemistry					
Dr. HIREMATH SURESH BABU	M. Sc., M. Phil., Ph. D.	Professor	Organic Chemistry	32	Nil
Dr. KOTTURESHWARA N.M	M. Sc., M. Phil., Ph.D. D.L.B	Professor	Physical Chemistry	26	Nil
Mrs. MJAYASHREE	M.Sc., M. Phil.,	Assistant Professor	Organic Chemistry	21	Nil
Mrs. SUNITHA R.M.	M. Sc., B.Ed., (Ph. D.)	Assistant Professor	Organic Chemistry	07	Nil
Mathematics					
Dr. JEEVARGI PHAKIRAPPA	M. Sc., Ph. D.	Professor	Mathematics	28	Nil
Dr. SUMANGALA B	M. Sc., Ph. D.	Associate Professor	Mathematics	10	Nil
Mr. B VEERESH	M. Sc., M. Phil. (Ph. D.)	Associate Professor	Mathematics	22	Nil
Mr. H. M. MANJUNATHA	M. Sc., M. Phil.	Associate Professor	Mathematics	23	Nil
Mr. K. SANGAMESHWAR	M. Sc., M. Phil.	Associate Professor	Mathematics	20	Nil
Dr. P. SHAIK SHA VALI	M. Sc., M. Phil. (Ph. D.)	Assistant Professor	Mathematics	18	Nil
Mrs. A. SIVAMMA	M. Sc., M. Phil.,	Assistant Professor	Mathematics	10	Nil
Mr. METI PRABHAKARA	M. Sc.	Assistant Professor	Mathematics	6	Nil
Mrs. R. SHRUTI	M. Sc. (Ph.D.)	Assistant Professor	Mathematics	5	Nil

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11	List of senior visiting faculty		
Sl. No.	Name of visiting faculty	Qualification	Experience
	-----Nil-----	-----Nil-----	-----Nil-----

12	Percentage of lectures delivered and practical classes handled (programme wise) by temporary faculty		
	-----Nil-----		

13. Student-Teacher Ratio (programme wise)					
Student Teacher ratio Programme wise has been mentioned in the table below:					
Sl. No.	Programme	Year	No of students	No of teachers	Student: teacher ratio
	UNDER GRADUATE BE:		-----Nil-----		-----

Sl. No.	Programme	Year	No of students	No of teachers	Student: teacher ratio
	POST GRADUATE M. TECH:		-----Nil-----		

14	Number of academic supporting staff (technical) and administrative staff sanctioned and filled	
The below given table gives the cadre wise structure of academic support		
	Sanctioned	Filled
Administrative staff		
Lab instructor	01+01(Physics+Chemistry)	01+01(Physics+Chemistry)
Assistants	01+01+01 (Physics+Chemistry+Maths)	01+01+01 (Physics+Chemistry+Maths)

15	Qualifications of teaching faculty with D.Sc./D.Litt./Ph.D./M. Phil./P.G.	
Sl. No.	Faculty Name	Qualification
	Physics	
1.	Dr. NAGABHUSHANA N M	M. Sc., M. Phil., Ph.D.

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2	Dr. NAGARAJ M K	M.Sc., M. Phil., Ph.D.
3	Mrs. BHAGYA K R	M. Sc., B.Ed. (Ph. D.)
4	Mr. ANANDA THIPPERUDRA	M. Sc., B.Ed. (Ph. D.)
Chemistry		
5	Dr. HIREMATH SURESH BABU	M. Sc., M. Phil., Ph. D.
6	Dr. KOTTURESHWARA N M	M. Sc., M. Phil., Ph. D., LL.B.
7	Mrs. M JAYASHREE	M. Sc., M. Phil.
8	Mrs. SUNITHA R M	M. Sc., B.Ed., (Ph. D.)
Mathematics		
9	Dr. JEEVARGI PHAKIRAPPA	M. Sc., Ph. D.
10	Dr. SUMANGALA B	M. Sc., Ph. D.
11	Mr. B VEERESH	M. Sc., M. Phil. (Ph. D.)
12	Mr. H M MANJUNATHA	M. Sc., M. Phil.
13	Mr. K SANGAMESHWAR	M. Sc., M. Phil.
14	Dr. P SHAIK SHA VALI	M. Sc., M. Phil., Ph. D.
15	Mr. A SIVAMMA	M. Sc., M. Phil.
16	Mr. PRABHAKARA METI	M. Sc.
17	Mrs. R SHRUTI	M. Sc. (Ph. D.)

16	Number of faculty with ongoing projects from a) National b) International funding agencies and grants received					
Sl. No.	Title of the project	National / International	Funding agency	Principal Investigator/ co-investigator	Duration of the project	Amount sanctioned
1	APPLIED for BRNS PROJECT ENTITLED 'Synthesis and characterization of $Ni_{0.5-x}Cd_xCo_{0.5}Fe_2O_4 + BaTiO_3$ ME composites' of worth 12,40,000-00	National	BRNS	Dr. Nagabhushana N M	3 Years	Not yet sanctioned

17	Departmental projects funded by DST-FIST/UGC, DBT, ICSSR etc. and total grants received		
Sl. No.	Title of the project	Funding agency	Amount sanctioned
	-----Nil-----		

18	Research Centre/facility recognized by the University
	The Department of Physics is recognized as VTU RESEARCH CENTRE in the year 2013.

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19	Publications:							
* Publication per faculty								
	Sl. No.	Faculty name	No. of Publications					
		Physics						
	1	Dr. NAGABHUSHANA N M	13					
	2	Dr. NAGARAJ M K	05					
		Chemistry						
	3	Dr. HIREMATH SURESH BABU	06					
	4	Dr. KOTTURESHWARA N M	13					
	5	Mrs. M.JAYASHREE	05					
	6	SUNITHA R M	02					
		Mathematics						
	7	Dr. JEEVARGI PHAKIRAPPA	04					
	8	Dr. SUMANGALA B	07					
	9	Mr. B VEERESH	06					
	10	Dr. P SHAIK SHA VALI	05					
* Number of papers published in peer reviewed journals (national/international) by faculty and students								
Total No. of papers published in International Journal : 63								
Total No. of papers published in National Journal : 03								
	Sl. No.	Title	Author	Name of the Journal	ISSN/ ISBN	Year	Volume	
	1.	Technique for Measurement of Photon Intensity for the Determination of μ_m in the low photon energy region	Dr. Nagabhushana N M	Journal of X ray Science and Technology,	[ISSN-0895-3996/	2004	Vol. 12(3), 161.	
	2.	Determination of Effective Atomic Number of Biological Substitutes for low Energy X rays	Dr. Nagabhushana N M	Journal of Medical Physics	ISSN-0971-6203]	2003	Vol. 28(3), 210.	
	3.	Natural radioactivity measurements of Kudligi, Karnataka	Dr. Nagabhushana N M	International Nuclear Information System [IAEA-INIS], Reference No.37111292.	INIS Issue 47,	2005	Vol. 37	

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4.	Radioactivity measurement in the granites of North Karnataka, India and its radiological implications	Dr. Nagabhushana N M	INIS, Indian journal of Physics (IJP),	JISSN 0973-1458/, Springer	2010	84(11), 1467-1480
5.	Natural Radioactivity measurements of rock samples in Gulbarga, Karnataka	Dr. Nagabhushana N M	International Atomic Energy Agency, International Nuclear Information System [IAEA-INIS],	Reference No. 350424 77, Related Record 350424 40, INIS	2003	Vol.3 5, INIS Issue 21,
6.	Natural Radiation in granites of North Karnataka, India	Dr. Nagabhushana N M	International Atomic Energy Agency, International Nuclear Information System [IAEA-INIS]	Reference No. 420705 08, INIS	2008	Vol.4 2, INIS Issue 31,
7.	Radiation studies on environmental samples of Raichur district, Karnataka, India	Dr. Nagabhushana N M	International Atomic Energy Agency, International Nuclear Information System [IAEA-INIS],	Reference No. 390244 37, Related Record: 390241 68, INIS	2007	Vol.3 9, INIS Issue 11,
8.	Natural radioactivity analysis of granite and stone samples from North Karnataka	Dr. Nagabhushana N M	International Atomic Energy Agency, International Nuclear Information System [IAEA-INIS],	Reference No. 381003 89, Related Record: 381003 56, INIS	2007	Vol.3 8, INIS Issue 44
9.	Natural radioactivity	Dr. Nagabhushana N M	Bulletin of Radiation	JISSN 0972-	2011	Volume

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		levels in some environmental samples of Shahapur Region of North Karnataka, India	ana N M	Protection and Environment	0464		34, Issue 1 [p. 35-59]	
	10	Characterization and Conducting Properties of Polyaniline (PANI)	Dr. Nagabhushana N M	International Journal of Advanced Scientific and Technical Research	ISSN 2249-9954	2015	Special issue- Issue 5 (volume 5)	
	11	Rupture Strength and elastic limit of Nickel coated alloys	Dr. Nagabhushana N M	International Journal of Advanced Scientific and Technical Research.	ISSN 2249-9954	2015	Special Issue	
	12	Structural and Optical Studies of BaSO ₄ :Eu ²⁺ +Phosphor Prepared by Co-Precipitation Method	Dr. Nagabhushana N M	International Journal of Ferroelectrics	ISSN 1563-5112 DOI, 10.1080/000150193.2017.1361201	2017		
	13	Matrix Representation of Quantum Gates	Dr. Nagabhushana N M	International Journal of Computer Applications	(0975-8887),	2017	-No.8-Volume 159	
	14	Electrical and Structural Transport characteristics of Ni/Ti Schottky contacts to n-type Indium Phosphide (In-P)	Dr. NAGARA J M. K.	International Journal of Engineering Trends and Technology (IJETT)	ISSN: 2231-5381, DOI 10.14445/22315381/IJETT-V47P230	May 2017	Number 3, 183-186.	
	15	Interface states and	Dr. NAGARA	International Journal of	ISSN: 2454-	July 2016	Volume 2.	

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		electrical properties of Cu/Ni Schottky contacts on n-In P substrate	J.M. K.	Advanced Scientific Technologies in Engineering and Management Sciences	356X		Issue 7, pp. 6-8 doi.org/10.2413/jastem.s2016/v2/i7/48892	
	16	Temperature-Dependent Current-Voltage (I-V) and Capacitance-Voltage (C-V) Characteristics of Ni/Cu/n-In P-Schottky Barrier Diodes	Dr. NAGARA J.M. K.	Brazilian Journal of Physics	(43:12-21,	2013	DOI 10.1007/s13538-013-0120-7	
	17	Annealing Effects on Electrical Properties and Interfacial Reactions of Ni/Cu Schottky Rectifiers on n-Type In P	Dr. NAGARA J.M. K.	Journal of Modern Physics		June 15, 2012	Vol.3, 538-545, June 15, 2012	
	18	Barrier Characteristics of Ni/n-In P (100) Schottky Contacts Based on Temperature Dependent I-V Measurements	Dr. NAGARA J.M. K.	International Journal of Materials Physics	ISSN 0974 - 309X.	2010	Vol. 1, No. 1	
	19.	Evaluation of stability constants of lansoprazole drug with	T Suresh, Hiremath Suresha Babu, Suresh and M	J. Ind. Council Chem.	ISSN 0971-5037	2007	Vol. 3	

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		copper(II), cobalt(II), nickel(II), zinc(II), cadmium(II) and mercury(II)	Revanasiddappa					
	20.	Physicochemical studies on biologically important benzothiazole Schiff bases with some transition metal ions: ionization constants and stability constants	T Suresh, Hiremath Suresha Babu, Suresh, Basavaraj Padmashali and Gurupadaya	Proc. Nat. Acad. Sci. India,		(2008).	Vol.4	
	21.	Study on the physico-chemical characteristics of ground water of Gulbarga city (Karnataka)	Nirdoshi patil, Ateeq Ahmed, Sureshababu Hiremath, N. M. Kottureshwara, M. Jayasree and J.Nijalingappa	International Journal of Applied Biology and Pharmaceutical Technology	ISSN 0976-4550	Aug-Oct - 2010	Vol.1	
	22.	Evaluation of Stability Constants of Gabapentine with Copper (II), Cobalt (II) and Nickel(II) :- Issue-5, Page- 28.	T.Suresh, Nabiya Saltana Mayana and Hiremath Suresha Babu	International Journal of Scientific Research	ISSN 2277-8179,	May - 2013	Vol.2	

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23.	Synthesis, Characterization and Antimicrobial Studies on Cu(II), Co(II), Ni(II), Zn(II), Cd(II) and Hg(II) Complexes with Biologically Active Benzothiazole Schiff Bases	Hiremath Suresha Babu, T. Suresh, Suresh, D. Kottresh and Shivaraaj	International Journal of Pharmacy & Life Sciences	ISSN: 0976-7126	Aug - Sep, 2015		
24.	Spectrophotometric Study of Stability Constants of Adducts of Nickel (II)-Diphenylthiocarbazonate with Nitrogen Bases by Job's method of Continuous Variation	Hiremath Suresha Babu	international journal of recent scientific research	ISSN: 0976-3031	March - 2016	Vol.7	
25.	Spectrophotometric study of adducts of nickel (II) chelates of di(o-ethylphenyl) carbazone with nitrogen bases"	T.Suresh,, Kottureshwara N M and Suresh	J.ind. Coun, Chem.,		2004	Vol. 21	
26.	Adduct formation of nickel (II) chelates of di (o-ethylphenyl) Carbazone with nitrogen bases, Gulbarga	T.Suresh and Kottureshwara, N M,	Research journal (Sc. & Tech), Vijanara Ganga		2005	Vol.04	

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		University						
	27.	Spectrophotometric study of adducts of nickel (II) -4-methyl-8-Quinolinate with nitrogen Bases	T.Suresh,S.S anjosh Kumar, Kottureshwara N M. Syed Khasim, M.Revanasiddappa, & Suresh	<i>E-Journal of Chemistry</i>		April 2008	Vol.05	
	28.	Study on metal ligand stability constants of diazepines and benzodiazepines in aqueous media "	Suresh, T.Suresh, PadakiSrinivas, Kottureshwara N M and M.Revanasiddappa	<i>J.Ind. Coun. Chemists</i>		2008		
	29.	"Assessment of Drinking Water Quality of borewells water of Hospet Taluk region Karnataka, India"	T.Suresh and Kottureshwara N.M.	<i>Rasayan J.Chem</i>		2009	Vol.2	
	30.	"Quality of Ground Water in Selected Areas of Sandur Taluk in Karnataka, India"	T.Suresh, Kottureshwara.N.M.	<i>Rasayan J.Chem.</i>		2009	Vol.2	
	31.	"PhysicoChemical Characteristics of Bore wells Water of Bellary Taluk, Karnataka, India"	T.Suresh, Kottureshwara. N.M. M.Revanasiddappa and Suresh,	Nature Environment and Pollution Technology,		June 2009	Vol. 8	
	32.	"Assessment of Ground	T.Suresh, Kottureshw	Nature Environment		Dec 2009	Vol. 8	

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		Water Quality in and Around Bellary City of Karnataka	ara. N.M. and M.Revanasidappa,	and Pollution Technology					
	33.	"Study on the Physico Chemical Characteristics of Ground Water of Gulbarga City, Karnataka"	Nirdosh Patil, Atzeq Ahmed, Suresh Babu. H. Kottureshwara N.M. & M Jayashree	International Journal of Applied Biology & Pharmaceutical Technology		October 2010	Vol. 1,		
	34.	"Status of Ground Water Quality of Kudligal area in Bellary District, Karnataka, India"	Kottureshwara N.M ¹ , Manjappa S ² , Suresh T ³ and Jayashree M ⁴	International Journal of Pharmacy and Life Sciences	3467-3473	April 2014	Vol.4		
	35.	Analysis of ground water in selected areas of siruguppa taluk in Karnataka	Kottureshwara N M ¹ , Suresh T ² , D Kottresh T ³ and Jayashree M ⁴	International Journal of Pharmacy and Life Sciences	4780-4788	2015	Vol.6		
	36.	Appraisal of ground water characteristics and water quality index of rich iron mineral city, Karnataka State, India	N M Kottureshwara*, TSuresh**, S.Manjappa Jayashree M and Sunitha R.M	International Journal of Innovative Research in Advanced Engineering	ISSN: 2349-2163	March-2017,		Vol 1 - 4	

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37	Investigation of ground water quality in selected areas of Huvnahadagali taluk in Ballari district, Karnataka	Kottureshwar N M ¹ , Suresh T ² , Jayashree M ³ and Sunitha R.M	International Journal of Innovative Science, Engineering and Technology	ISSN: 2348-7968	August-2017		
38	"Studies on the Physico Chemical Characteristics of Ground water of Gulbarga City, Karnataka" Technology	Nirdosh Patil, Ateeq Ahmed, Suresh Babu Hiremath Kottureshwara N.M. & M Jayashree	International Journal of Applied Biology & Pharmaceutical		October 2010		
39	"Status of Ground Water Quality of Kudligi taluk area in Bellary District, Karnataka, India".	Kottureshwara N M ¹ , Manjappa S ² , Suresh T ³ And Jayashree M ⁴	International Journal of Pharmacy and Life Sciences	3467-3473	April 2014:		
40	Analysis of ground water in selected areas of siruguppa Taluk in Karnataka	Kottureshwara N M ¹ , Suresh T ² , D Kotresh T ³ and Jayashree M ⁴	International Journal of Pharmacy and Life Sciences	4780-4788	2015		
41	Appraisal of ground water characteristics and water quality index of rich iron mineral city,	N M Kottureshwara*, T Suresh**, S.Manjappa and Jayashree	International Journal of Innovative Research in Advanced Engineering	ISSN: 2349-2163	March-2017,		

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		Karnataka State, India	M and Sunitha R M					
	42	Investigation of ground water quality in selected areas of Huvinahadagali taluk in Ballari district, Karnataka	Kottureshwara N M ^{1*} , Suresh T ² , Jayashree M¹ and Sunitha R M	International Journal of Innovative Science, Engineering and Technology	ISSN: 2348-7968	August-2017		
	43	Appraisal of ground water characteristics and water quality index of rich Iron mineral city, Karnataka State, India	N M Kottureshwara*, T Suresh**, S Manjappa Jayashree M and Sunitha R M	International Journal of Innovative Research in Advanced Engineering	ISSN: 2349-2163	March-2017,	V o l u m e 4	
	44	Investigation of ground water quality in selected areas of Huvinahadagali taluk in Ballari district, Karnataka	Kottureshwara N M ^{1*} , Suresh T ² , Jayashree M¹ and Sunitha R M	International Journal of Innovative Science, Engineering and Technology	ISSN: 2348-7968	August-2017		
	45	A singular perturbation solution for hydro magnetic flow past a stretching porous sheet.	P. H. Veena and J. Phakirappa	IJMSEA	ISSN:0973-9424	Sept.2012	V o l u m e 6 N o	

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	46	Boundary Layer Heat Transfer Flow past a Stretching Sheet with Temperature Gradient dependent Heat Sink and Internal Heat Generation.	P. H. Veena and J. Phakirappa	IJMER	ISSN:2 249- 6645	Sept -oct.2012	V o l 1 2	
	47	Heat Mass Transfer in a Non-linear flow over a Stretching Surface with Internal Heat Generation and chemical reaction in a porous medium.	P. H. Veena and J. Phakirappa	IJAME	ISSN:1 734- 4492	2008	V o l 1 3 N o 8 2	
	48	Heat Mass Transfer for a hydro magnetic Flow over a Stretching sheet with variable thermal conductivity and variable mass diffusivity	P. H. Veena and J. Phakirappa	IJMCAR	ISSN:2 249- 6955	March 2013	V o l 1 3	
	49	"FMG numerical solution of Modified Reynolds Equation Incorporating Poroeasticity and Couple-stresses"	B Veeresh	International Journal of Computational Mathematics and Numerical Simulation	ISSN:0 973- 581X	Jan-june 2012	V o l 1 5	

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	50	"Fast Wavelet Multigrid Solution of the Modified Reynolds Equation of Magnetohydrodynamic Lubrication Flow Between Rough Plates".	B Veeresh	International journal of mathematical Sciences	ISSN: 0972-754X.	July-Dec 2012	V o l u m e N o 4		
	51	" Full Multigrid Method Numerical Solution of Modified Reynolds Equation to study the surface roughness effects on squeeze film poroclastic bearings	B Veeresh	International journal of American Journal of mathematical Sciences	ISSN: 2250-3102	Jan 2013.	V o l u m e N o 1	2	
	52	"An Application of single term Haar wavelet series solution to Non-Linear stiff differential equations Arising in Biochemistry"	B Veeresh	International journal of American Journal of mathematical Sciences	ISSN: 2250-3102.	Jan 2013	V o l u m e N o 1	2	
	53	Wavelet full-Approximation scheme for the numerical	B Veeresh	International journal of computational and Applied	ISSN: 1819-4966	March 2017	V o l u m e	1	

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		solution of Non Linear Fredholm-Hammerstein integral Equations.		Mathematics					
	54	Paper "Hair Wavelet collection Method for the numerical solution of Non-Linear Volterra-Fredholm-Hammerstein integral Equations	B Veeresh	Global journal of Pure and Applied Mathematics:	ISSN: 0973-1768	March 2017	V	o	1
	55	Split block domination in graphs,	P. Shaik sha vali	International Journal of Research in Engineering and Technology	ISSN: 2319-1163,	2013	V	o	1
	56	Cototal block domination in graphs,	P. Shaik sha vali	International Journal of Management, IT and Engineering	ISSN: 2249-0558	2014	V	o	1
	57	Split block subdivision domination in graphs	P. Shaik sha vali	International Journal of Technical Research and Applications	ISSN: 2320-8163	2014	V	o	1
	58	Block split subdivision domination in graphs.	P. Shaik sha vali	Journal of Scientific Research,	ISSN: 2070-0245	2015	V	o	1
	59	Cototal block subdivision domination in graphs	P. Shaik sha vali	International Journal of Research in Engineering and Applied Science	ISSN: 2249-3905	2015	V	o	1
	60	Some Curvature	Sumangal		ISSN	(2014)	V		

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		Tensors on a Generalized Sasakian Space Form	a B. and Venkatesha	Malaya Journal of Matematik	2319-3786		0 1 2 3 4 5 6 7 8 9	
61		Trans-Sasakian Manifold Admitting Quarter Symmetric Metric Connection	Sumangal a B. and Venkatesha	British Journal of Mathematics and Computer Science	ISSN 2231-0851	(2015)	0 1 2 3 4 5 6 7 8 9	
62		On Weakly Con circular Symmetric Generalized Sasakian Space Form	Venkatesha and Sumangal a B.	Mathematica Aeterna	ISSN 1314-3344	(2014)	0 1 2 3 4 5 6 7 8 9	

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	63	On M-projective Curvature Tensor of a Generalized Sasakian Space Form	Venkatesha and Sumangal a B.	Acta Math. Univ. Comenianae	ISSN 0862-9544	(2013)	✓	
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	64	Some Results on ϵ -Trans-Sasakian Manifolds, International Journal of Mathematics and Statistics Invention	Venkatesha and Sumangal a B.	International Journal of Mathematics and Statistics Invention	ISSN 2321-4767	(2014)	✓	
							9	
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	65	On phi-Recurrent Generalized Sasakian Space Form	Venkatesha Sumangal a B. and C. S. Bagewadi	Global Journal of Science Frontier Research Mathematics and Decision Sciences	ISSN 2249- 4626	(2012)	V	
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	66	On Symmetric Properties of Generalized Sasakian Space Form	Venkatesha and Sumangal a B.	Global Journal Of pure and Applied Mathematics	ISSN 0973- 1768	(2015)	V	
							0	
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							9	
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							4	
							7	
	Number of publications listed in International Database (For Eg.: Web of Science, Scopus, Humanities International Complete, Dare Database-International Social Sciences Directory, EBSCO host, etc.)							
	• Monographs							
	Provide list							

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* Chapter in Books			
Provide list			
* Books Edited			
Provide list			
* Books with ISBN/ISSN numbers with details of publishers			
Provide list			
* Citation Index			
Provide list			
* SNIP			
Provide list			
* SJR			
Provide list			
* Impact factor			
Provide list			
* h-index			
Provide list			
Impact factor			
Name of journal		Impact factor	
J. Ind. Council Chem.		0.78	
Proc. Nat. Acad. Sci. Ind.		0.396	
I J A B P T		1.26	
I JSR		3.2416	
I J P & Life Sci		2.798	
IJSR		5.971	
E-Journal of Chemistry		0.23	
Rasan J. Chem.		0.86	
NEPT		1.621	
IJAPT		1.216	
Brazilian journal of Phy.		1.042	
Journal of Modern Phy.		0.84	
Journal of X ray Science and Technology		0.699	
Journal of Medical Physics		2.635	
Journal of Ferro-electrics		0.491	
Indian journal of Physics		0.988	
Journal of Computer Applications		3.1524	
International Journal of Advanced Scientific and Technical Research		3.11	
International Journal of innovative science engineering and technology (IJSET)		5.264	

20	Areas of consultancy and income generated		
Sl. No.	Consultancy work	year	Amount generated

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		-----Nil-----		
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21	Faculty as members in		
	a)	National committees	
		Sl. No.	Committee member
		1.	Dr. NAGABHUSHANA N M.
		2.	Mr. ANAND THIPPERUDRA
		3.	Dr. HIREMATH SURESH BABU
		4.	Dr. KOTTURESHWARA N. M.
		5.	Mrs. M. JAYASHREE
		6.	Dr. JEEVARGI PHAKIRAPPA
		7.	Mr. B. VEERESH
		8.	Mr. H. M. MANJUNATHA
		9.	Mr. K. SANGAMESHWAR
		10.	Mr. P. SHAIK SHA VALI
		11.	Mrs. A. SIVAMMA
		12.	Mr. PRABHAKARA METI
	b)	Sl. No.	Committee member
			-----nil-----

22	Student projects			
	<p>Students are encouraged to carry out research oriented projects which are of social relevance involving state-of-art and inclusive technology.</p> <p>Students get an opportunity to use latest tools and technical know-how in the process of executing the project.</p> <ul style="list-style-type: none"> • Students are provided the required infrastructure to do their projects (in-house). • Risks are discussed at each project progress review meeting. • The Department keeps track of the progress of the project in terms of completion, time and costs. • To enforce team work, students are asked to form a group of 3 to 4 members to carry out the project work. This enables them to build team spirit and helps in co-ordinating various activities. <p>a) Percentage of students who have done in-house projects including inter departmental / programme</p> <p>b) Percentage of students placed for projects in organizations outside the institution i.e. in Research laboratories/Industry/ other agencies</p>			
	Sl.	Programme	Year	% of projects

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	No.			done inside the Institute (a)	done outside Institute (b)
	1	Under Graduate BE		-----Nil-----	-----
	2	Post Graduate M. Tech		-----Nil-----	-----

23. Awards/Recognitions received by faculty and students

Following Students received awards/recognitions in various events.

Year	Name of the student	Date	Event Name	Venue	Award
	-----	-----	Nil---	-----	-----

24. List of eminent academicians and scientists / visitors to the department

SL No.	department	topic	Resource Person with designation	Date of visit
	-----nil-----			

25. Seminars/Conferences/Workshops organized & the source of funding

a) National

SL No.	Activities	Name of the Short Term Course / Training FDP Conducted	Funding agency	Amount	Duration Month and year	No of Participants

NIL

b) International

SL No.	Activities	Name of the Short Term Course / Training FDP Conducted	Funding agency	Amount	Duration Month and year	No of Participants

NIL

26. Student profile programme/course wise:

Name of the Course	Academic year	Application Received	Selected Seats		Pass Percentage
			Male	Female	

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	BE:		Admission through KEA/ COMED-K	---Nil---	---Nil---	Eligibility criterion is 40% for SC/ST and 45% for Others
	M. Tech:		Admission through KEA	---Nil---	---Nil---	Eligibility criterion is 40% for SC/ST and 45% for Others

27	Diversity of Students				
	Name of the Course	Year	% of students from the same state	% of students from other States	% of students from abroad
	Under graduate BE		---Nil---		

28	How many students have cleared national and state competitive examinations such as NET, SLET, GATE, Civil services, Defense services, etc.?			
	State level	No. of Students	National level	No. of Students
	NET	Nil	GATE	Nil
	SLET		Civilservices	
			Defenseservices	

29	Student progression						
	Student progression	Percentage against enrolled					
		-----	----	-----	-Nil-	-----	-----
	UG to PG						
	PG to M. Phil						
	M. Phil to Ph.D.						
	Ph. D. to Post Doctoral						
Employed:							
	Campus selection	-----	----	Nil	-----	-----	-----
	Other than campus recruitment			Nil			
	Entrepreneurship/Self-employment			Nil			

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30 Details of Infrastructural facilities	
a) Library facilities	
Total no of Volumes	Physics-430, Chemistry-100, Mathematics-3360
Journal	Nil
Project Report	Nil
News Letters	Nil
Syllabus	available
Question Bank	available
Digital Library	192.168.8.4:8080-Engg. Books 192.168.8.4:8081-General Books
E-journal	available
b) Internet facilities for Staff & Students-yes	
Service provider: BSNL	
Band Width: 10 Mbps till 50GB beyond that 2Mbps	
c) Class rooms with ICT facility	
d) Laboratories	
Physics-1, Chemistry-1, Mathematics-0	

31 Number of students receiving financial assistance from college, university, government or other agencies					
YEAR	Central Government Scholarship for SC/ST (Karnataka)	Fee Concession for OBC students (Karnataka)	Ex-Defense children scholarship	Municipal Scholar	Others
-----Nil-----					

32 Details on student enrichment programmes' (special lectures/workshops/seminar) with external experts			
Sl. No.	Topic	Date	Resource Person with designation
-----	-----Nil-----	-----	-----

33 Teaching methods adopted to improve student learning	
PPTs, Class room teaching, Assignment, Tutorial class, Remedial class, Seminars.	
Learning Management System, NPTEL Lectures	
<ul style="list-style-type: none"> ➤ Identifying similarities and differences. ➤ Summarizing and note-taking. ➤ Reinforcing effort and providing recognition. 	

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	<ul style="list-style-type: none"> ➤ Homework and practice. ➤ Cooperative learning. ➤ Setting objectives and providing feedback. ➤ Generating and testing hypotheses. ➤ Questions, cues, and advance organizer. ➤ By providing assignments and having appropriate formats to verify the same. ➤ Providing well equipped laboratories.
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34	Participation in Institutional Social Responsibility (ISR) and Extension activities
	Academic Year 2017-18
	Sl. No. Date Event
	-----Nil-----

35	SWOC analysis of the department and Future plans
	Strengths
	<ul style="list-style-type: none"> • Excellent infrastructure • Well qualified experienced faculties • Research centre in physics department • Well equipped laboratory in physics and chemistry department.
	Weakness
	<ul style="list-style-type: none"> • Shortage of lab area.
	Opportunity
	<ul style="list-style-type: none"> • To participate various technical STP/ FDP/ Workshop/Seminars. • Faculties are encouraged to pursue higher studies and publish books and papers.
	Challenges
	<ul style="list-style-type: none"> • Faculty knowledge up gradation with the current technology • To provide strong foundation in Basic science to build engineering carrier. • Graduating the students with poor CET admission ranking in a stipulated Time.

DECLARATION BY THE HEAD OF THE INSTITUTION



ವೀರಸಾಿವ ವಿದ್ಯಾವರ್ಧಕ ಸಂಘ, ಬಳ್ಳಾರಿ

Principal :9448043649

(08362) - 245328

Off: 244809

Fax: 242148

ರಾಜ್ ಬಹದ್ದೂರ್ ವೈ.ಮಹಾಬಲೇಶ್ವರಪ್ಪ ತಾಂತ್ರಿಕ ಮಹಾವಿದ್ಯಾಲಯ, ಬಳ್ಳಾರಿ

(ಪೂರ್ವದ್ವ ದಿವ್ಯನಗರ ತಾಂತ್ರಿಕ ಮಹಾವಿದ್ಯಾಲಯ)

THE VEERASAIVA VIDYAVARDHAKA SANGHA'S

RAO BAHADUR Y.MAHABALESWARAPPA ENGINEERING COLLEGE

(FORMERLY VJAYANAGAR ENGINEERING COLLEGE)

CANTONMENT, BALLARI - 583104. (KARNATAKA)

2819

(AFFILIATED TO VISVESVARAYA TECHNOLOGICAL UNIVERSITY, BELAGAVI & APPROVED BY AICTE- NEW DELHI)

e-mail: principalymec@gmail.com, principal@ymec.in

Website: www.ymec.in

DECLARATION BY THE HEAD OF THE INSTITUTION

I certify that the data included in the **self study report** (SSR) are true to the best of my knowledge. This SSR is prepared by the institute after internal discussions and no part thereof has been outsourced.

I am aware that the peer team will validate the information provided in the SSR during Team visit. The team of the Rao Bahadur Y Mahabaleswarappa Engineering college is looking forward for the peer team visit to the institution.

Place : Ballari

Date : 30/3/2017

PRINCIPAL

Dr.Hiregoudar Yerranagoudaru

PRINCIPAL

R.Y.M. Engineering College

(Formerly VJayanagar Engg. College)

Cantonment, BALLARI-583104.