KLE Society's
B. V. Bhoomaraddi College of Engineering and Technology, Hubballi.

Annual Report 2014 -15

www.bvb.edu

Our Parent Organization:

Karnataka Lingayat Education Society (KLE Society)

Initiatives by private organizations and dedicated individuals have played a critical role in the growth of higher education in India. In 1916, a dedicated group of individuals enabled a dream. Their vision was to create a strong education base in the neglected areas of North Karnataka and Maharashtra. This resulted in establishment of KLE Society on 13th November 1916 at Belgaum. This society was started by seven dedicated teachers and three generous patrons. Their mission was to provide education, basically to the children of the farming community who constitute a significant majority in Karnataka. With the strong support by philanthropists and intellectuals of the area, the KLE society started to grow, and today, it has become an important entity in the educational scenario of the country.

Apart from establishing educational institutions, the KLE Society has earned the distinction in the field of health care and other community services. It has entered into collaboration with universities abroad in USA, UK & Malaysia. Through its 250 institutions, KLE Society is rendering services in the areas of:

- Health Care and Medicine
- Engineering and Technology
- Management Studies
- Agriculture
- Arts, Science and Commerce
- Teachers training
- Primary and secondary education
- Law

With a visionary leadership of Chairman Dr. Prabhakar Kore, and members of Board of Management, the society's institutions serve more than 100,000 students. Over 16,000 dedicated faculty and staff work together to meet the high standards set by the management.

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Foreword

We are proud to present the annual report of K. L. E Society's B. V. Bhoomaraddi College of Engineering & Technology, Hubli, for the year 2014-15. This report summarizes the achievements and progress we have made over the last year to improve our academic offerings and student services.

Our faculty is making progress towards providing a truly world-class learning environment by adopting holistic curricular reforms and innovative pedagogical practices.We are working hard to create a dynamic research environment to promote research excellence. This year, we embarked on a significant governance reform initiative to adopt good governance practices.

We would like to extend our sincere thanks to our faculty, staff, students, alumni and industry partners for their continued support and remarkable contributions. Looking ahead, we will continue to work towards realizing our vision to be a leader in engineering education, and advancing research and innovation to support socio-economic development of the region.

Dr. Ashok S. Shettar
Principal

Dr. Prabhakar Kore
Chairman, BOG

Introduction and Our Organization

The versatile manifestations of engineering have had a profound and lasting impact on our civilization. From the grandeur of the pyramids and man's journey into space, to the recent information revolution, engineering continues to fascinate and enthrall.

The KLE Society's B. V. Bhoomaraddi College of Engineering and Technology (BVBCET), believes in kindling the spirit of this unique and creative discipline in every student who enters its portals, preparing them for a world in which their contribution truly stands apart. Established in 1947, BVBCET has achieved an enviable status due to a strong emphasis on academic and technical excellence. From a modest beginning with the college offering only Undergraduate program in civil engineering, the college has indeed come a long way with the college now offering 12 UG and 9 PG programs Affiliated to Visvesvaraya Technological University, Belgaum and is recognized by AICTE, New Delhi and accredited by NBA.

Current annual student intake for Undergraduate & Post Graduate programs is more than 1200. The continuous and painstaking endeavors and commitment towards education and scholarly activities of the extremely qualified and dedicated academicians and faculty members has resulted into college gaining Autonomous Status from the University and UGC.

The college has adopted Outcome Based Education (OBE) framework which catalyzes the curriculum to the needs of the industry and the society. An innovative pedagogical practice in the teaching learning process forms the academic ecosystem of the institution. The active involvement of faculty in research has led to the recognition of 13 research centers by the University.

To enable the students to evolve into dynamic professionals with broad range of soft skills, the college offers value addition courses to every student. Good industrial interface and experienced alumni help the students to become a complete employable engineer. The college is a preferred destination for the corporates looking for bright graduates. There is always a sense of vibrancy in the campus and it is perennially bustling with energy through a wide range of extra-curricular activities designed and run by student forums to support the academic experience.

Spread over the 68 acres of land, the luxurious and picturesque campus comprises of various buildings with striking architecture. A constant endeavor to keep abreast with technology has resulted in excellent state-of-the-art infrastructure in every engineering discipline.

Our Vision

As a college established by a premiere non-profit organization 'Karnataka Lingayat Education Society (KLE Society)', that took birth in 1916 with an aim of "Empowering the people through Education" , we will always strive hard to assume a place of pre-eminence among the institutions offering professional education. As an Autonomous College, B. V. B. College of Engineering and Technology is committed to offering high-quality undergraduate and postgraduate programs that continue to effectively respond to the needs of students and other constituents. Our graduates will be among the most sought after by the nation's best employers and will become leaders and accomplished professionals in their chosen work.

The college will be recognized by the quality and impact of its research and creative work. Our research programs will make important contributions to instructional programs through the involvement of graduate and undergraduate students and the faculty. In carrying out its research mission, the College will focus on the established areas of strength and areas that have future opportunities by establishing research clusters with the potential to develop into nationally and internationally recognized centers of excellence.

Research will also provide the knowledge base and capability to serve the society and address regional, state, national, and global challenges and opportunities.

To accomplish these educational goals, BVBCET will continue to attract faculty distinguished by this commitment to teaching, student learning and by achievements in research, both pure and applied. In the process of learning and discovery, our faculty and staff will find the highest levels of fulfillment and satisfaction as they collaborate to educate, guide and challenge students to use their intellectual skills, creativity, and belief to meet the challenges and opportunities that face the human community and lead lives of meaning and purpose. As a dedicated team of a premier technological institution, it will empower the college to contribute to the growth of socio-economic potential of the region.

Student Enrollment

Admission Process

Undergraduate Admissions

Admission rules of the college are as per the regulations of Karnataka State Govt. The students have to appear for the Common Entrance Test conducted by Govt. of Karnataka (CET/Mngt. Seats) or COMEDK Entrance Test (COMEDK/ Management Seats) or All India Engineering Entrance Examination (AIEEE – Management seats). Students willing to take admission in Architecture have to appear for an online test conducted by Council of Architecture, arranged in College in the department of Architecture. The intake to each of the programs is fixed by AICTE, New-Delhi.

The seat distribution as per Karnataka State Govt. regulations for various UG Programs is as follows :

Undergraduate seat distribution

Type of Program	Govt. Quota	COMEDK	Management Quota
Aided Programs	95%	--	05%
Unaided Programs	45%	30%	25%

Under un-aided programs, 30% of seats are allotted through COMEDK seat allotment and 25% directly under Management Quota.

Postgraduate Admissions

Admissions to postgraduate engineering programs (M. Tech) are on the basis of ranks obtained in the entrance test conducted by the Karnataka Examination Authority (KEA). Admissions for MBA & MCA programs are done based upon PGCET of KEA or KMAT ranks.

The admissions for the research programs (Ph.D and M.Sc.) are done according to the rules framed by the Visveswaraya Technological University , Belgaum.

Undergraduate Programs

Sl. No.	Program	Intake
1.	Civil Engineering	60
2.	Mechanical Engineering	120
3.	Electrical & Electronics Engg.	60
4.	Electronics & Communication Engg.	120
5.	Industrial & Production Engg.	60
6.	Architecture	60
7.	Computer Science & Engg.	120
8.	Automobile Engineering	60
9.	Instrumentation Technology	120
10.	Information Science & Engg.	120
11.	Biotechnology	60
12.	Automation & Robotics Engg.	60

Postgraduate Programs

Sl. No.	Program	Intake
1.	Structural Engineering	18
2.	Production Management	18
3.	Energy Systems Engg.	18
4.	Digital Electronics	18
5.	Computer Science & Engg.	18
6.	VLSI Design & Testing	18
7.	Machine Design	18
8.	Master of Business Administration	60
9.	Master of Computer Application	60

Research Programs

Sl. No	Department	`	
1	Civil Engg.	M Sc (Engg.) by research	PhD
2	Electrical & Electronics Engg.	M Sc (Engg.) by research	PhD
3	Electronics & Communication Engg.	M Sc (Engg.) by research	PhD
4	Mechanical Engg.	M Sc (Engg.) by research	PhD
5	Computer Science & Engg.	M Sc (Engg.) by research	PhD
6	Industrial & Production Engg.	M Sc (Engg.) by research	PhD
7	Biotechnology	M Sc (Engg.) by research	PhD
8	Physics	-	PhD
9	Chemistry	-	PhD
10	Mathematics	-	PhD
11	Automobile Engg.	M Sc (Engg.) by research	PhD
12	Instrumentation Technology	M Sc (Engg.) by research	PhD
13	Master of Business Administration	-	PhD

Student admissions for the year 2014-15- UG

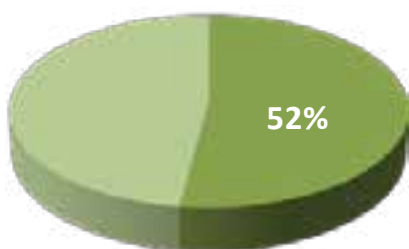| Program	Count
B-Architecture	63
Automation & Robotics Engg	50
Biotechnology	45
Automobile Engg	60
Instrumentation Technology	125
Industrial Production Engg	56
Information Science & Engg	126
Computer Science & Engg	126
Electronics & Communication Engg	120
Electrical & Electronics Engg	65
Mechanical Engg	126
Civil Engg	67

Year	Count
2013-14	1072
2014-15	1029

Student admissions for the year 2014-15- PG

Program	Count
Machine Design	18
VLSI design and testing	18
Computer Science	18
Digital Electronics	18
Energy Systems	18
Production Management	17
Structural Engg	18

Year	Count
2013-14	124
2014-15	125

Program	Count
MCA	55
MBA	49

Year	Count
2013-14	104
2014-15	104

## Admissions 2013 -14

52%

Admissions 2014 -15

57%

Top 20% ranks

The college continues to maintain its leadership in the North- Karnataka region in attracting the top merited students. This is demonstrated in the following graphs in which CET cutoff ranks for few of the programs are compared with four other peer colleges of more than 30 years standing.
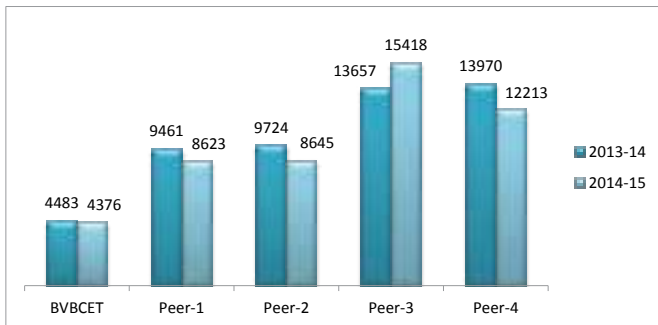
CET - Cut off ranks (GM) - 2014
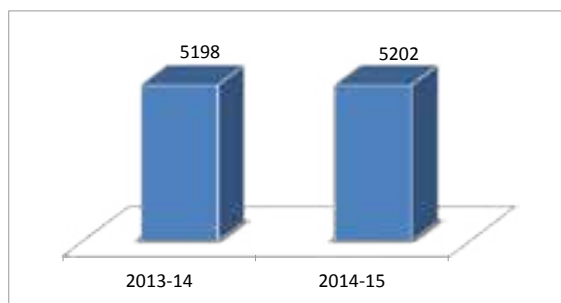Electronics & Communication
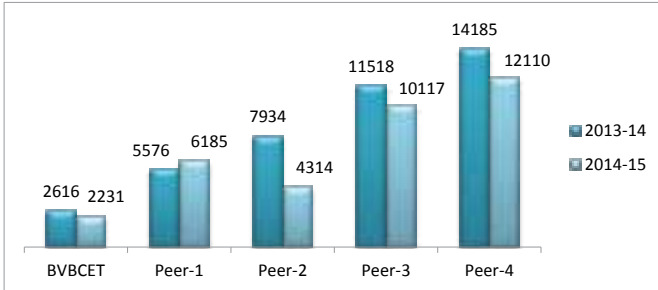
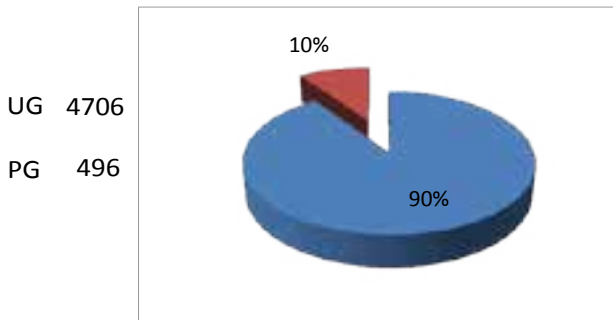CET - Cut off ranks (GM) - 2014
Computer Science
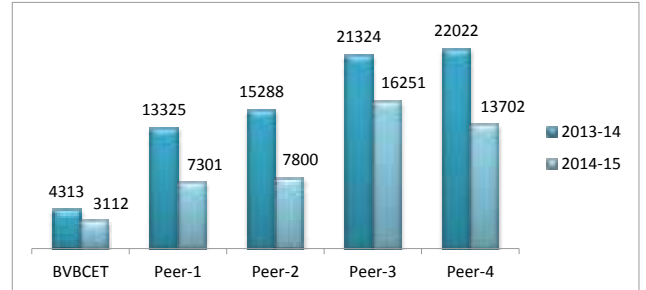
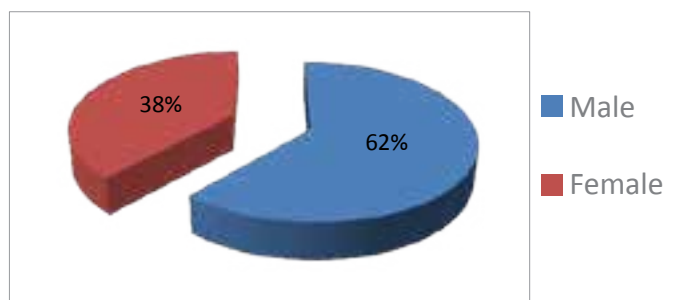CET - Cut off ranks (GM) - 2014
Mechanical Engineering

Total Student Enrollment

Student Enrollment 2014 -15

UG   4706

PG   496

Student Gender 2014 -15

Academic Quality

Engineering education is going through a profound transformation driven by the new realities and opportunities created by the global knowledge society. To ensure the fitness of higher education system to negotiate new challenges, adaptation of proper academic frameworks and strategic interventions are necessary. Outcome Based Education (OBE) framework has emerged as a major reform model in the global engineering education scenario and has been mandated for accreditation of engineering programs for the Washington accord signatories. The OBE approach is based on a student centered learning philosophy and focuses on the output (outcomes) instead of the input (content). BVBCET attained autonomous status in 2007 and initiated curricular reform process by adopting OBE framework. The framework gives us an opportunity to build a culture of continuous improvement that strengthens our academic quality and inspires student achievement.

The initiatives undertaken to enhance the quality of education and student performance are presented under following three tenets of academic quality

Advances in Curriculum

Faculty Development

Student achievements

Advances in Curriculum

In the year 2009, the college undertook a comprehensive curricular reform process by adopting Outcome Based Education (OBE) framework. Each program formulated Program Outcomes (POs) in line with ABET EC 2000 Educational outcomes (a through k of criteria of 3). According to ABET, POs describe what students are expected to know and be able to do by the time of graduation. These relate to the knowledge, skills, and behaviors that students acquire as they progress through the program.

A methodology to map the outcomes through curriculum and assessment of attainment of outcomes is established by the college. For each course, a set of Course Learning Outcomes (CLOs) were defined and mapped to the POs. A method for assessing individual CLOs was developed. Overall success in attainment of each outcome is identified by analyzing combination of individual course reports and student works. The frame work adopted by the college is depicted in the Figure below.
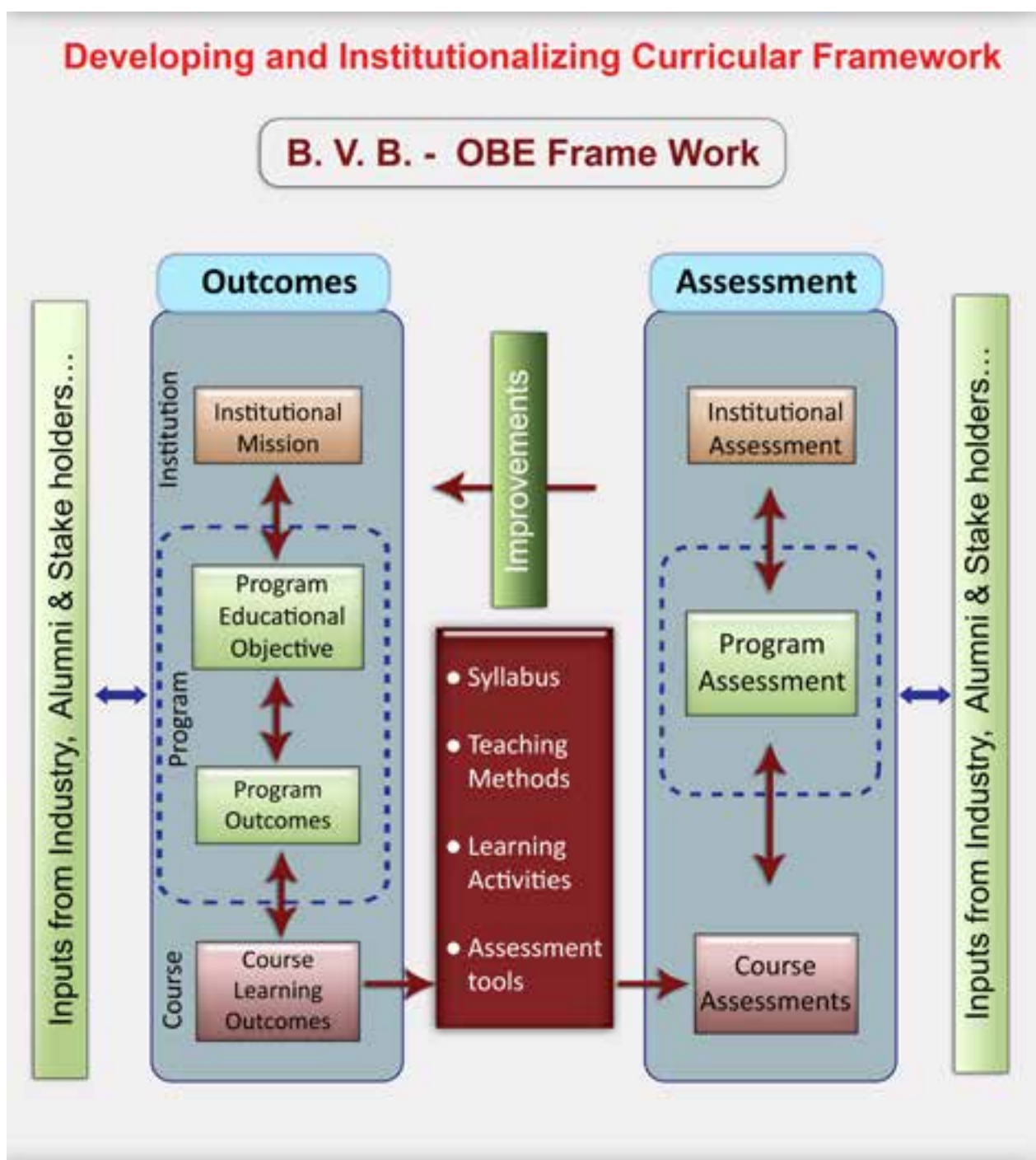
Major Academic initiatives Undertaken:

The college continually works to bring about innovations in curriculum design, pedagogy and assessment to enhance the student learning. Few of the initiatives are:

Product Design and Realization:

Engineering graduates are expected to function effectively as an individual, and as a member or leader in diverse teams, and in multidisciplinary settings. In order to provide an opportunity for students to work in multidisciplinary teams this course has been designed.

This course has following objectives:

Design multi-disciplinary projects culminating in a finished product.

Engage in a systematic approach towards product design.

Develop a new product or improve an existing product.

Product Design and Realization is offered as an open elective course of 3 credits. It is conducted during Summer Vacation for students passing 4th Semester of UG and the teams are comprised of both electrical and mechanical engineering students. Exposure to Product Design early in the undergraduate engineering curriculum enables the students to be well equipped for future challenges.
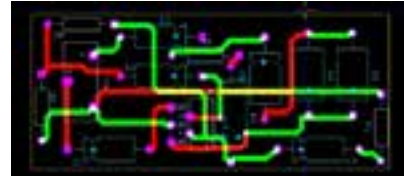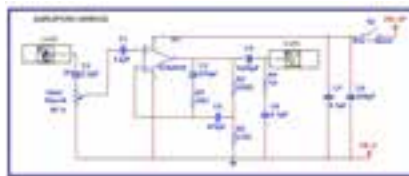
Machine Tool Design:

Engineering graduates are expected to have an ability to Design a system, Component or process to meet desired needs within realistic constraints. Even though our students were familiar with design of components the ability to design a system was identified as a weakness. To address this weakness a new course 'Machine Tool Design' was offered to 6th semester students of Mechanical Engineering.

Scope of the new course includes:

To familiarize steps to design a complete machine tool based on the given objective.

- To draw the layout and kinematic diagram in 2D.
- To Prepare assembly drawings as per industry standards.
- To Carry out design calculations of all relevant factors, components to establish strength, reliability etc.
- To Preparation of manufacturing drawings with all relevant GD&T symbols, tolerances, material selection, heat treatment in standard sheets as per IS.
- To prepare Bills of materials in excel sheet.
- To draw the whole model in 3D using CAD software.

Preparation of Project Report.
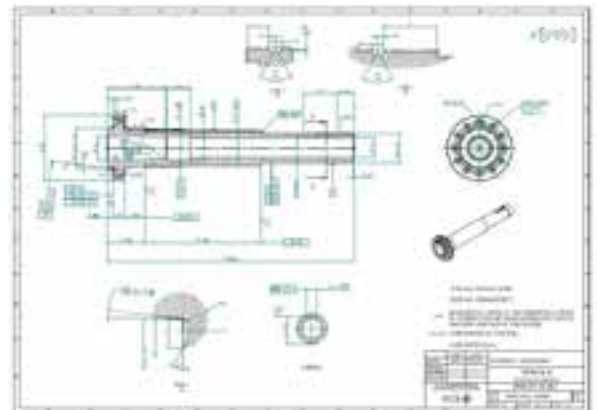
This course has helped to bridge the gap in the curriculum and prepares the students to design a system.

Workshops

Workshop on Advancing Scholarship of Engineering Education
A workshop on this topic was organized and 40 faculty members attended. Dr. Yogesh Velankar was the resource person. Dr. Yogesh sharing his Research Experience at Purdue University, USA discussed how rigorous research in engineering education can become a catalyst for change and reform. He provided inputs on Creation of Teaching Philosophy Document for Pedagogy group of the institute.

Workshop on Course Design:
Dr. N.J. Rao was the resource person. He emphasised that the curriculum has to meet a set of Program Outcomes identified by National Board of Accreditation and Each course aims to meet a subset of these Program Outcomes. The design and conduct of courses should permit the measurement of attainment of Program Outcomes. A course is characterized by a set of Course Outcomes (Competencies) identified to meet the selected subset of Program Outcomes
The workshop focused on the following key points.

- Elements of curriculum
- Instructional System Design Models
- Taxonomy of Learning
- Assessment in Higher Education
- Categories of Knowledge
- Cognitive Processes

This is achieved through in-house development workshops run by the college and also through programs offered by reputed institutions and industry.

Legend:
- ■ Faculty Development Programs
- ■ Staff Development Programs

	2013 - 14	2014 - 15
Faculty Development Programs	18	16
Staff Development Programs	07	03
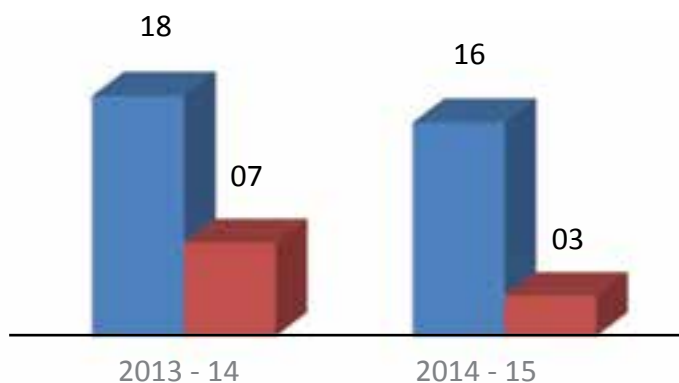
Student Achievements

Student achievements are presented through three parameters:

1. Academic performance : average CGPA of the graduating students (scale of 10)

2. Graduation rate

3. Number of students employed in the campus placements and number of students opting for higher studies.

Academic Performance
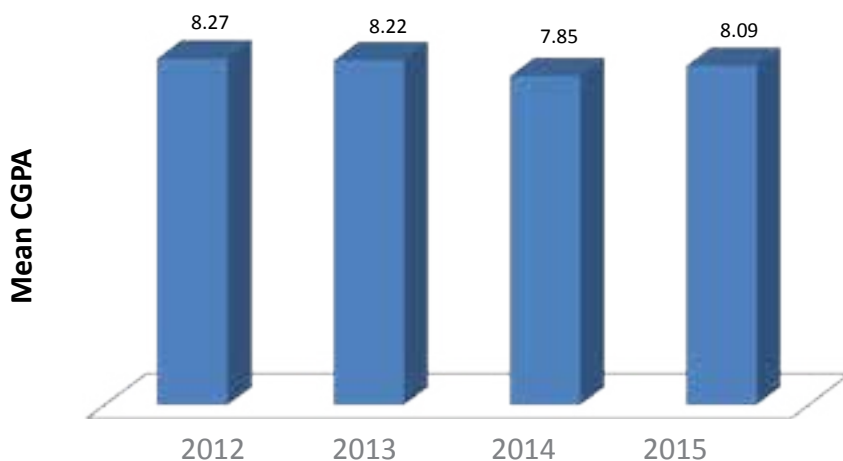
Graduation Rate
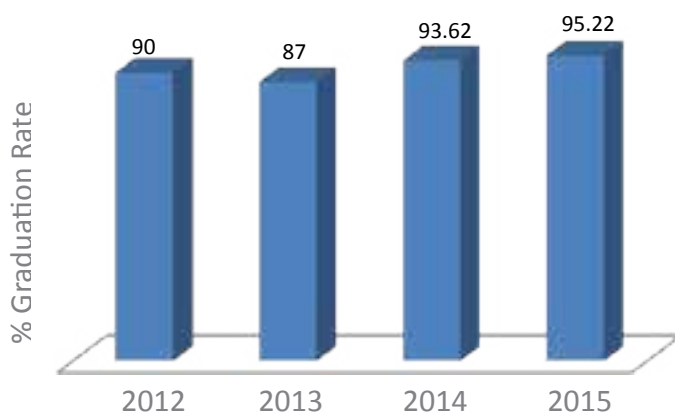
Student Placements
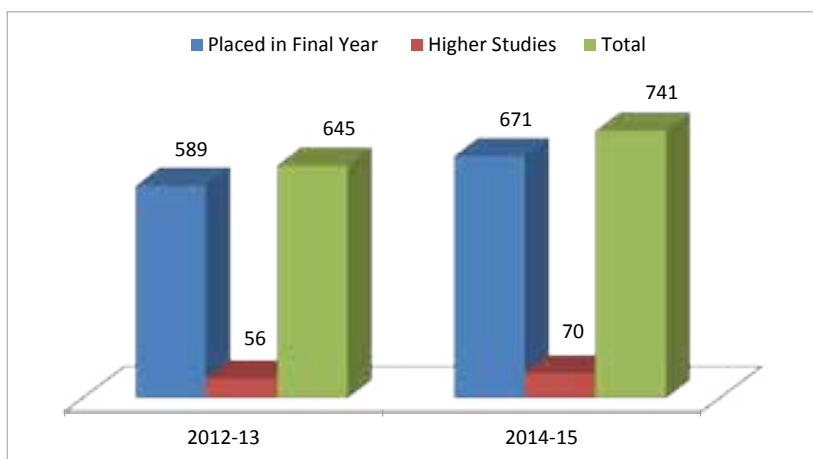
Research and Innovation

To meet its growth aspirations, one of the challenges faced by the college is to transform itself from a good teaching institute to an excellent teaching and research institute. It is important that we need to further the research and developmental activities for the following:

- To sustain academic and professional reputation in knowledge-based economy
- To attract and retain high quality faculty and students
- To maintain cutting-edge curriculum and create stimulating learning environment
- To improve undergraduate teaching, because a researcher; (i) is a better thinker and problem solver, (ii) can promote active teaching & (iii) can create enthusiasm
- To align academic activities with economic development of the region

The college has undertaken several strategic initiatives which are driven by 'Research and Development Promotion Council' (RDPC). The institutional research plan priorities are

- Match our strengths with opportunities
- Increase our research capacity
- Create a dynamic research environment to promote research excellence

The summary of present status regarding research activities with statistics of research centers, publications, funding received and some initiatives taken up to enhance the research activities in the college are presented.

Research centers

BVBCET has 13 research centers affiliated to VTU with 45 doctoral faculty guiding 99 registered doctoral students. Awarded Doctoral and MS candidates from these research centers are 28 and 2 respectively. The following table presents details about the research-centers.

Table-1: Details of registered canidates at 13 research centers

Sl. No.	Department	No of Faculty With Phd	No. of PhD / MSc registered	No. of PhD / MSc Submitted	No. Degree PhD+MSc awarded
1	Automobile	2	3	00	00
2	Biotechnology	2	10	00	00
3	Civil	10	18	01	03
4	Computer Science	2	16	00	02
5	Electrical & Electronics	2	4	00	01
6	Electronics & Communication	7	23	00	04+1
7	Instrumentation Technology	1	9	00	00
8	Industrial Production	5	7	01	03
9	Mechanical	5	22	00	10+1
10	Physics	3	12	00	03
11	Chemistry	4	4	00	00
12	Mathematics	2	8	00	02
13	Master of Business Administration	1	2	00	00
	Total	50	140	02	28+2

Summary of publications

The following table summarizes the number of publications of research work in refereed conferences and journals both at national and international level.

Table-2: Summary of papers published during 2012-13, 2013-14 & 2014-15

Year	International Journal		National Journal	International Conference	National Conference	Total	Impact Factor
	With Impact Factor	Without Impact Factor					
2012-13	20	43	01	29	18	111	Average Impact Factor =**1.630** Maximum Impact Factor =**5.96**
2013-14	40	107	07	154	36	344	Average Impact Factor =**1.510** Maximum Impact Factor =**4.357**
2014-15	50	82	16	120	58	326	Average Impact Factor =**1.84** Maximum Impact Factor =**5.510**
Total	110	232	24	303	112	781	

Publications International Journals
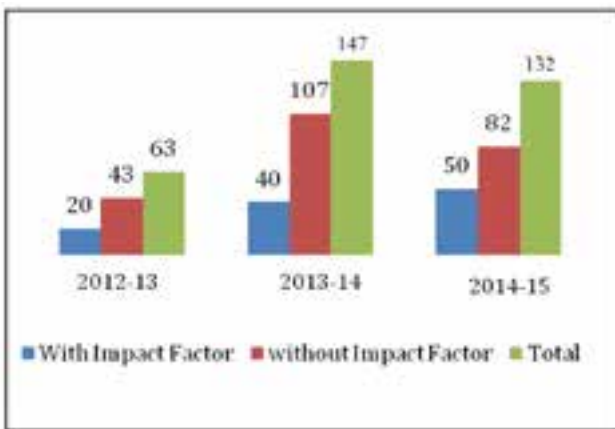
Publications : Conferences

Consolidated list of publications, since 2013, 2014 and 2015						
	Scopus		Google scholar		Web science	
Dept	Indexed	Citations	Indexed	Citations	Indexed	Citations
Auto	12	20	14	37	13	13
BT	0	0	30	48	3	0
Civil	14	0	62	62	0	0
CSE	29	2	83	36	0	0
E&E	9	3	18	13	0	0
ECE	26	64	61	96	0	0
IP	17	454	22	739	8	9
ISE	19	12	68	38	0	0
IT	0	0	0	0	3	0
Mech	22	327	101	743	5	2
MCA	51	98	43	642		
Phy	20	115	35	135	15	25
Maths	0	13	28	44	0	0
Chem	7	57	28	183	57	7
Total	226	1165	593	2816	104	56

Summary of external funded projects
Research grants received: 2012-2015

SI.NO	Year	Number of projects	Amount sanctioned	Funding Agency
1	2012-2013	01	20.0 L	VGST
2	2013-2014	05	81.64 L	AICTE, DRDO, DST,VGST
3	2014-2015	03	14.0 L	UAS,VGST
	TOTAL	**09**	**115.64 L**	

Research Experience for Undergraduates (REU)

Undergraduate research opportunities help the student to experience and learn how to identify and define the problems and solve them, how to find and evaluate evidence, how to consider and assess competing interpretations, how to form and test their own analysis and interpretations and how to communicate their ideas and findings. These learning's enable them to take part in the research missions in their future career inside or outside academia. Probably our college is the first institution in India to introduce 'Research Experience for Undergraduate (REU)s' in the curriculum as an optional course. The response from the students and faculty mentors has been overwhelmingly positive. The students and faculty mentors have devoted considerable time and effort to make the experience worthwhile and fruitful.

Summary of outcome of the REU course is reflected in the following table. In the first year, 19 REU students have published 25 papers in international conferences and journals, and 8 of them have either completed or doing post graduation. About 25% of the total REU students from 2011-14 are doing post graduation either in India or abroad.

Year	Number of REU students	Number of Guides	Number of publications	Year	Number of PGs from REU students
2011-12	18	22	25	2011-12	8
2012-13	31	40	20	2012-13	8
2013-14	3 0	44	15+8	2013-14	5
2014-15	46	48	26	2014-15	4

Setting up of Research clusters

To promote interdisciplinary research in emerging and high impact areas, the college has undertaken initiative to establish research clusters. Our aim is to develop these Clusters to a level of competency that, they can further emerge as centres of excellence. The objectives of research clusters are to enable focused research, attract funding, synergize the efforts of faculty and students to gain greater recognition for the institution at National and International level. Following three areas for clusters of competence have been identified based on present strengths and future needs.

ESDM Cluster Annual Report 2015

Focus areas of this cluster are:

Internet of Things

Agriculture

Industrial Automation

Outcomes:

Number of products in progress : 1
Number of Industry and Institute collaborations : 2

ENERGY CLUSTER

Focus areas of this cluster are:

Development of solar wind hybrid systems
Solar PV systems
Wind Energy conversion systems
Development of solar crop dryer
Multi crop dryer
SPV assisted solar crop dryer
Development of cook stoves
Development of microbial consortium for digestion of kitchen waste
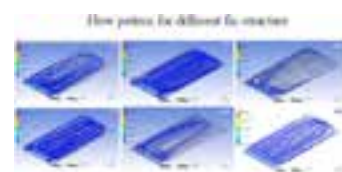
Outcomes:

Total Publications in 2014-15 : 06
Total patents in process+ applied in 2014-15 : 01
Total project proposals sent in 2014-15 : 06
Total fund received in 2014-15 : Rs.6.00L
Number of product development (in progress) : 5
Number of Industry and Institute collaborations : 02

Centre for Material Science

Focus areas of this cluster are:

1. Composites for Structural and Energy applications
   a. Nano-composites for structural applications
   b. Nano-composites for tribological/automotive applications
   c. Machining applications
   d. Pre-cast slab panel cement composites
2. Biosynthesis of Nano particles for Gas sensing, biological applications
   a. Multi gas sensors
   b. Biological applications
3. Membranes for fuel cell and Pervaporation applications
   a. Fuel Cell Membranes
   b. Pervapouration Membranes
4. Bio-plastic production
   a. Bioplastic
   b. Biocompost
5. Biochemical Sensors using III-nitride nanostructures

Outcomes:

Total Publications in 2014-15: 20
Total patents in process + applied in 2014-15: 02 + 02
Total project proposals sent in 2014-15: 14
Total fund received in 2014-15: Rs.70 Lakhs (External)
Number of products in progress:01

Entrepreneurship

Centre for Technology Innovation and Entrepreneurship (CTIE):

Entrepreneurship is the key driver for development and job creation in any nation. Higher the entrepreneurship orientation of people, more can be innovative solutions, improved quality of life and better economic development of its citizens. Centre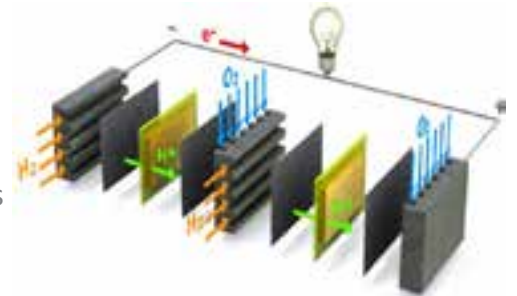 for Technology Innovation and Entrepreneurship -CTIE at BVB aims to build this culture of start-ups at BVB. Using a seven step framework to build technology ventures, CTIE boasts having 34 companies at BVB campus and is growing.

CTIE Charter:

- Develop entrepreneurial thinking and liking in the mind of students
- Excite students to take on socially relevant challenges and help build solutions
- Develop ability to build business around tech. solutions
- Engage entrepreneurially aligned people to come together to be a part of the business ecosystem

CTIE Strategy:

To help build a technology entrepreneurship ecosystem, CTIE followed a two pronged approach. The first is to encourage external entrepreneurs with a good business plan and cultural fit to start their business on BVB campus. This enabled quick ramping up of companies with commercial interest that served as a beacon to engage students in a variety of collaborative activities. Alumni of BVB responded to this call effectively and many businesses made CTIE as their home. Simple and no-strings-attached policies of CTIE helped to attract serial entrepreneurs and young engineers to build their ventures.

Centre for Technology Innovation & Entrepreneurship
CTIE

- **Attract**
- **Support**
External Entrepreneur

- **Inspire**
- **Educate**
- **Enable**
Student startups

Help to Build Entrepreneurial Ecosystem
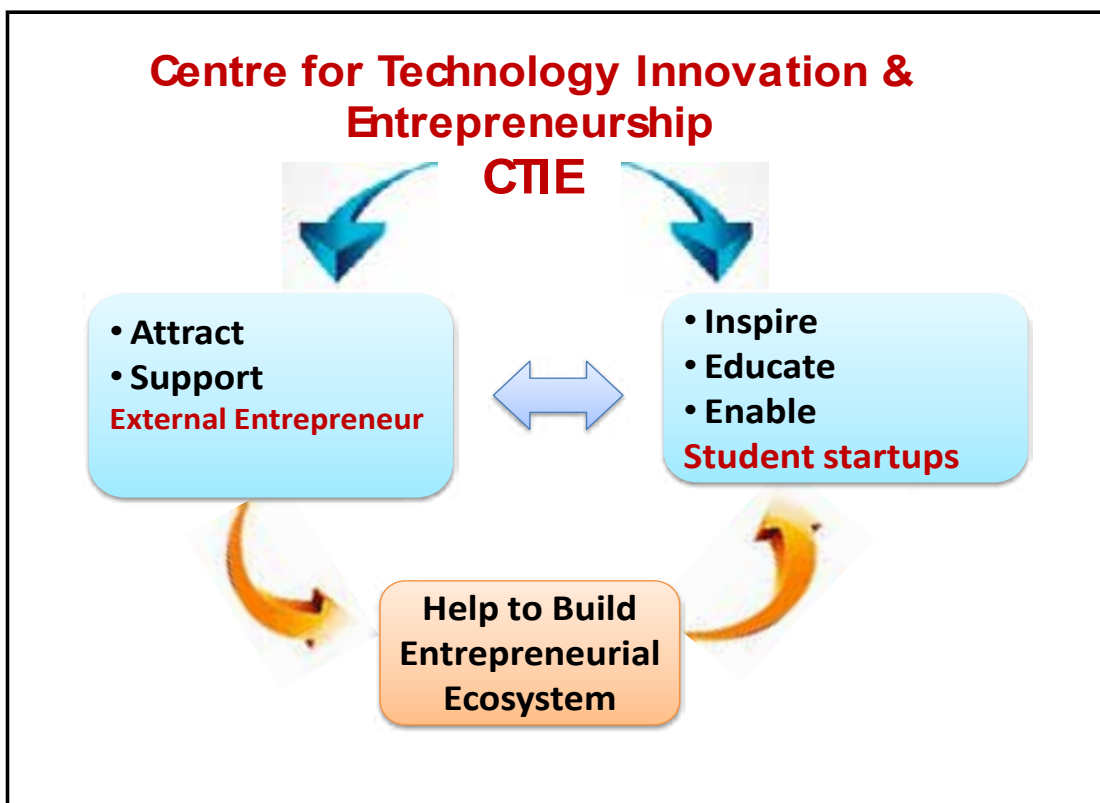
The second path focused on building the pipeline of eligible students who are open enough to experience career of an entrepreneur. A good mix of credit based and non-credit activities were undertaken as a part of this approach.

The entrepreneurship interventions designed at BVB focused mainly on,

- Building entrepreneurship culture on campus
- Opportunity identification and technology solutions
- Commercialization strategies

As a result of such blended approach to entrepreneurship, CTIE has following to claim.

- 34 technology companies on campus
- 23% of these are student/fresh graduate start-ups
- Over 18,000 sq. ft of incubation space given away
- Over 230 plus jobs created

Noteworthy CTIE Start-up successes:

Navya Biological

Selected to be one of the 35 start-ups from India, as a part of the Nasscom, TiE, IIM-A hosted First India-U.S. Startup Konnect in the Silicon Valley -with Indian Prime Minister Narendra Modi on September 27, 2015, to highlight the strengths of Indian Start-up ecosystem.

LabInApp

Received venture funding of Rs. 1 Crore from Unitus Seed Fund for its product in the field of education.

Kooki Consumer Electronics

a CTIE incubated company is now valued at over Rs. 3.5 Crores.

CTIE Student Interventions:

MIB - (Make in BVB)

a student body under CTIE, dedicated to student development and entrepreneurial initiatives in campus. MIB has been instrumental in holding events like, PUPA, Ideation Camp, E-Summit and many more value added programs.

PUPA

It is an accelerated product development and marketing experience for students from all branches and years. PUPA started in 2013 and in its current version, it has over 800 students participate from all across the region. Student teams are given seed capital to make a product which they mandatorily have to sell to realize profit. This is a time bound and focused event which has led to many product innovations.

Ideation Camps:

Intel Youth Enterprise program is a globally accepted workshop format for developing and scaling ideas. The program consists of an ideas framework that helps participants, through the stages of ideation, validation, development and lastly, testing in a real world environment. All through the workshop, there are Buddy sessions, energizers, peer-coaching, mentoring and many such fun and exciting activities. Student teams make B-plans and pitch them to judge panel from Industries to win cash prizes.

Butterfly:

It is a business plan competition open for all students of BVB. The pitch contest is held with external entrepreneurs as judges. Selected business plans are qualified to take part in CTIE capstone project track for one year. During this one year, students are expected to conduct literature survey, and competitive analysis of the proposed solution. Eventually they make the proof of concept ready for field demonstration. Capstone projects go through intense reviews 3 times during the year by external entrepreneurs as judges.

Students work on building value proposition, through their novel products and learn the challenges associated with it. It teaches how important it is to keep the customer at the centre while making business decisions. It is an experiential learning experience where in they get to interact with mentors and technology guides to solve the problem undertaken.

Product Design and Realization- (PDR) - Summer term course

Product design and building is a complex process requiring cross-functional teams from design, manufacturing, financing, marketing and many more. PDR as head start course provides an opportunity for the students to experience the complete product design and realization process, working in teams comprising of students from different disciplines of engineering.

PDR essentially intends to achieve two things – first is, to collaborate with engineers from other disciplines to achieve a common goal, second is, to understand the design/product hand off stages between various development phases.

Global Immersion in Innovation and Entrepreneurship:

This is a multi-disciplinary and multi-cultural team activity, where in students from University of Massachusetts and BVB Hubli come together to build a business model for a chosen technology solution. The two week residential course emphasizes on literature survey, global business standards and regulations, competition evaluation, financial and market viability of the chosen solution. Students develop a business model and pitch it to an external jury panel. Teams comprises of students from engineering, business, economics, health sciences and nursing and other disciplines. Since 2014 the emphasis of this program is on a multi-nation experience, wherein students from Japan, China, Thailand and Guyana, US and India have taken part. Till date over 150 students from BVB have graduated out and remarkably many have started their ventures at BVB.

Student Exchange Program	2014 January at Hubli	2014 June at UMass Lowell, USA	2015 January at Hubli	2015 June at UMass Lowell, USA
	30 BVB + 9 US students	14 BVB + 16 US students	33 BVB + 17 US students	17 BVB, 14 US, 5 Japan, 5 China, 4 Thailand, 2 Guyana students.

Centre for Innovation and Product Development: (CIPD)

The process of developing a product that has commercial value is what an engineering professional aspires to achieve. The product development process (PDP) can be complex and require multiple disciplines to come together to deliver the end goal.

CIPD's vision is to build a culture 'product think' among students and young start-ups.

Over arching philosophy of CIPE:
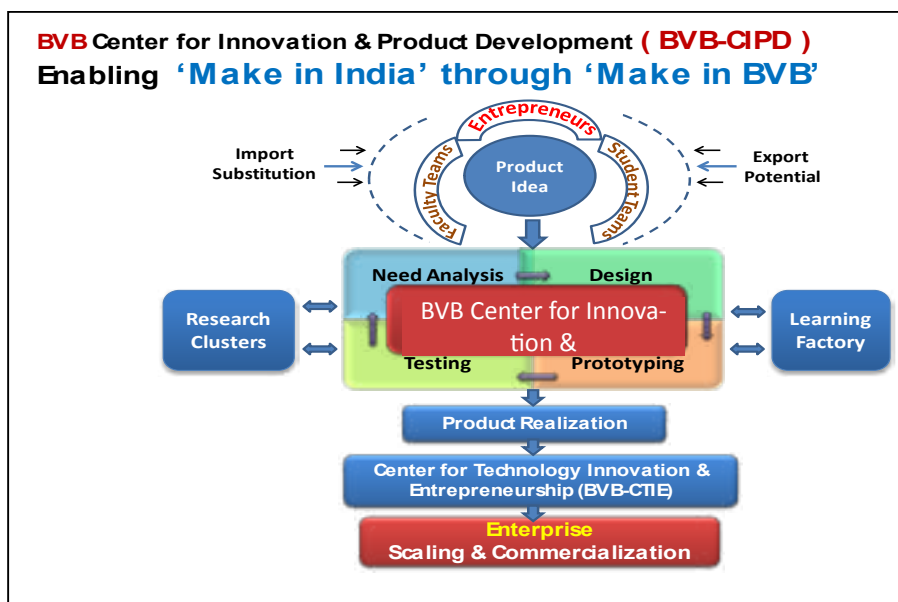
CIPD values the importance of a product development support system being available on campus. A state-of-the art prototyping facility 'Learning Factory' is setup to help transform technology concepts to proof of concepts (poc's) and prototypes.

Student teams with innovative, commercializable ideas are identified and nurtured by CIPD to help develop poc's and prototypes.

CIPD has just started functioning since Sept 2015 and has plans to engage students from all disciplines in a productive manner.

Learning Factory is a place:

Where students, technicians and faculty interact

Where theory and knowledge are put into practice

Built around a flexible structure

Learning Factory Facilities:

Machines at glance in Learning Factory

CNC Turning Centre

CNC Vertical Machining Centre

CNC Wire EDM Machine

CNC Router

Precision Desktop
3D Printing -
Objet30 Pro

3D desktop milling
machine

Power Tools

Conventional Machine Tools

Lathe

Surface Grinder

Drilling / Milling machine

Industry Partnership

It is essential that the institute continues to strengthen its association with the industries to enhance its student learning experience and relevance of its research activities.

Curriculum intervention:

Board of studies of every program is having at least two senior members from Industries like Microsoft, GE, Tata motors, TCS, Samsung, Sankalp etc.

Industry Oriented Courses:

Active Directory Services:

Has been offered in Collaboration with Microsoft IGTSC for the students of CSE, ISE and EC branches.

Parallel Computing and Applied Parallel Computing:

Has been offered In Collaboration with NVIDIA for UG and PG courses of CSE and ISE.

Fundamentals of IT:

Has been offered by the Mechanical stream departments in collaboration with Infosys.

Automotive electronics:

Has been offered in Collaboration with Robert Bosch and KPIT. This has led to increase in placements by 150% for the companies in the field of automotive electronics in Bosch, KPIT, Continental and Delphi.

Aircraft Systems and Design of Aircraft Structures:

Has been offered by the Mechanical stream departments in collaboration with Infosys.

Manufacturing technology:

Has been offered for the Mechanical stream departments in collaboration with Quest Global (now Aequs).

Guest Lectures from Industries:

EverydepartmenthasorganizedLectures fromtheindustryintheformofExpert

Lectures,Co-teaching, &career guidance.

Infosys	19
Microsoft	13
Robert Bosch	9
Informatica	4
TESCO	2
Sankalp	3
Webonise Lab	2
Biocon, Clinigene and various Bio- Tech Companies	8

Mock interviews by alumni from the industries:

Every department has organized mock Interviews by alumni to prepare the students

PG Projects in Industries:

151 PG students have done their projectin 40 industries

MoU with Beckoff, Pune
BVB-Beckhoff Center of Competence in PC Control Automation

The objective of MOU is to keep the Undergraduate students and the faculty of BVB CET up to date with latest PC Based Open Automation Technology developments.

To make the students competent in PC based Automation Software tool TwinCAT based PLC, Motion control, Robotics & Visualization functions that are available in TwinCAT.

Education Research

Centre for Engineering Education Research (CEER)

Background:

Academic Autonomy granted to BVBCET in 2007 offered an opportunity to innovate and excel in Engineering Education. This also came with the responsibility of performing to the expectations of all the stake holders including the regulatory bodies. It was at this time that the leadership of the system invested in collaborations to elevate itself to the next level of performance. The first such collaboration which gave the sound foundation was with Indo US Collaboration for Engineering Education (IUCEE). The faculty leadership institutes (FLIs) organised by IUCEE in 2008 and 2009 gave the exposure to global best practices of Engineering Education leading to sprouting of innovations in teaching –learning space showing visible results. Encouraged by this, Centre for Engineering Education Research was established in 2010 to encourage innovation and research in Engineering Education.

Vision:

To promote innovation and research in Engineering Education.

Objectives:

1. Empower faculty members with the best practices in curriculum design, teaching learning and assessment through training, workshop and allied activities

2. Encouraging innovation in curriculum design, teaching – learning and assessment

3. Facilitate research and systematic study of the impact of pedagogical practices

4. Conduct outreach activities like publication, workshops, trainings and conferences

Activities:

Faculty Conclave:

An annual event to showcase the innovations in curriculum design, delivery and assessment by faculty members of BVBCET being conducted since 05 years. "Faculty conclave 2015" was held on July 28th & Aug 1st 2015. A total of 51 papers were presented by 82 faculty members.

This event is observed to be attracting and motivating faculty members to innovate and publish their work in Engineering Education resulting in improvement of quality of publication and deliberations over the years.

Curriculum Innovation Grants:

This is a new initiative to promote culture of innovation in Engineering Education among faculty members and support them with funds up to Rs.10,000 per proposal. This year a total of 13 faculty members from 06 departments are given Curriculum Innovation Grants during the year 2014-2015.

Focused Program Outcome Attainment Initiative:

This new initiative is introduced in order to strategise and innovate in attainment of outcomes, collect best practices and institutionalize them. At institutional level, three program outcomes (POs b, c and g) are identified for the year 2014-2015 calling for special attention. Departments are encouraged to develop strategic plans and work towards attainment of these identified outcomes with a special focus. At the end of odd semester (December 2014), experience sharing leading to collection of best practices is planned.

Publications & Patents:

Engineering Education Research Publications:

There is a steady increase in the number of publications in Engineering Education Research which is evidenced in terms of conference and journal publications in recently held ICTIEE - 2015 held at BMSCE, Bangalore a totall of 34 papers and 13 posters were presented.

Outreach Activities:

OBE Workshops:

The experience of practicing outcome based education is shared with community in the form of conducting workshops on 'Curriculum Design Using Outcome Based Education Framework". So far, 1000+ faculty members are trained by the team of resource persons from BVBCET lead by Dr. Ashok Shettar. These workshops are organized at institutional, regional as well as national level.

Webinars :

IUCEE invited resource persons from BVBCET for a special webinar series on Outcome Based Education in July 2014. A total of 04 webinars were offered by the team consisting of Dr. Ashok Shettar, Dr. Prakash Tewari and Prof. Gopalkrishna Joshi. More than 2000 faculty members have been benefitted by this series.

Recognitions

Good Governance Learning Forum
Dr. Ashok Shettar, Principal and Prof. P.G. Tewari Dean Academic affairs participated as facilitators on good governance workshop conducted for all TEQIP BOG members and Heads of Institutes by NPIU and World bank.

Workshop on Good Governance Practices
World Bank and NPIU invited Principal Dr. Ashok Shettar to train the Directors of NIT's on Good Governance Practices.

IUCEE OBE Certification Course
BVB Team (Dr. Ashok Shettar, Dr. P.G. Tewari and Dr. Gopal Joshi) is offering the IUCEE OBE Certification course. A series of webinars are being presented from 3rd October 2015 to 26th December 2015.

Smart City Project
KLE Tech – BVB has been chosen as institutional partner for Hubballi-Dharwad Smart City Project.

Capital and IT

students. Additional class rooms have been constructed to accommodate increasing demand for elective courses. New class rooms with a combined capacity of 15000 Sq.ft, built at a cost of Rs. 1 Cr. To provide hands-on experience to first year students' two class rooms have been refurbished at a cost of 16 lakhs. Two wheeler parking area has been developed at a cost of Rs. 4.0 lakhs.

Continuing our efforts to develop ambient green campus, new landscape projects were undertaken. The new landscape focuses on creating informal interaction space for the students in the campus and construction of 'Musical Fountain'.
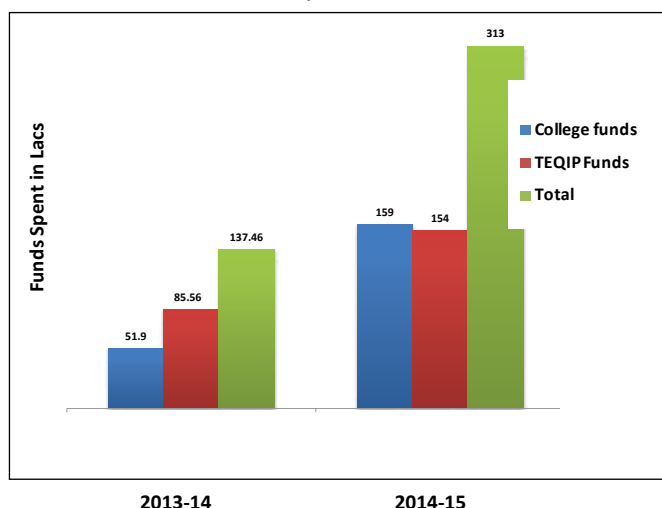
Laboratory Development

We continually strive hard to keep our laboratories and computer centers in tune with the latest technological advances. In the present year, apart from the college funds, the grants under TEQIP-II project helped us to establish several new laboratories and modernize the existing ones.

Equipments

Computers

Equipments chart: Funds Spent in Lacs — College funds, TEQIP Funds, Total.
2014-15: College funds 171.6, TEQIP Funds 147.12, Total 318.72.
2014-15: College funds 70, TEQIP Funds 12, Total 82.

Computers chart: Funds Spent in Lacs — College funds, TEQIP Funds, Total.
2013-14: College funds 51.9, TEQIP Funds 85.56, Total 137.46.
2014-15: College funds 159, TEQIP Funds 154, Total 313.
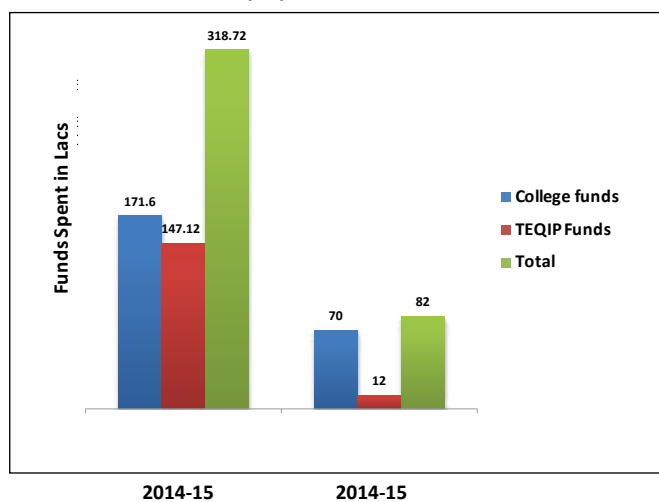
IT Platforms and Services

The present IT infrastructure of BVBCET was redesigned in the year 2014-15, as to cater modern engineering day's needs and challenges. We have upgraded the basic network infrastructure under TEQIP Grants; we upgraded Campus back bone from Copper to OFC.

Major upgradation of IT services in the year 2014-15 include the following:

• Increase in internet bandwidth from 40 Mbps to 80 Mbps

• Video conferencing and teleconferencing facilities added

• CCTV surveillance network was further strengthened by adding more number of cameras.

• Wireless access points installed throughout the campus

IT services (Software)

1. **IonCudos- Curriculum Design software for Outcome Based Education**
   IonCUDOS is innovative web based enterprise OBE software that helps automating NBA SAR process across all programs

2. Moodle - Course Content Management System ; Online sharing of Course Content and study Material : Assignments and Online Test ; Grade Reports ; Discussions and Forums

3. Contineo - Library Information Management System
   Automation of Library System with Bar-coding ; Digital Library , Video Tutorials ; Soft Books and Online Journals ; IEEE, JGate, Springer, ASME, ASA, EBSCO Online Journals, Nimbus e-book

4. Olive board - Online Practice and Preparation Platform
   Web based software for online practice and preparation for different competitive exams and placements

5. NPTEL Video Streaming
   E –learning through online web and video courses in Engineering

Governance

Board of Governers

Chairman

Dr. Prabhakar B. Kore

Members of the Trust/Society/Management

Sri. M. C. Metgud

Sri. S. I. Munavalli

Sri Amit P. Kore

University Nominee

Prof M. I. Savadatti

UGC Nominee

Dr. S. A. Chary

State Government Nominee

Prof. H. U. Talawar

Educationalists/Industrialists

Dr. M. V. Atre

Sri. Vivek G. Pawar

Dr. Anant Koppar

Members from Institution

Prof. B. L. Desai

Dr. P. G. Tewari

Head of the Institution/Member Secretary

Dr. Ashok Shettar

Strategic Plan Progress:

Strategic plan of BVBCET for the period 2012-17 defines how we will be successful within a challenging and changing engineering education environment. The plan has been devised to enrich the experience of our students, staff and stakeholders, and has been developed with their involvement and support through an extensive consultation programme that has also engaged with alumni and external partners. The inputs from TEQIP–Project Implementation Plan document have been considered while formulating the strategic plan of the Institution. The progress of the activities undertaken to achieve envisioned developmental objectives are reported below.

🟩 Completed		🟧 On-going (First Cycle not completed)
🟨 On-going (Yearly Cycle completed)		🟥 Not yet started

Goal -1 : Students' Success

To provide a student-focused teaching and learning environment that enables them to excel in academics and enhances their competencies for a successful employment.

1.1 Strategic Initiative : Increased learning outcomes of the students

Developmental Objective 1.1.1 : To design and develop innovative and engaging curriculum that meets the expectations of stakeholders

Specific Objective		Activity	Status
1.1.1.1	1	Formulate program objectives and program outcomes, based on needs and standards	🟩
	2	Develop course learning outcomes and map with program outcomes	🟩
	3	Identify the gaps in achieving the outcomes and evolve strategies to address them	🟩
1.1.1.2	1	Establish Performance Indicators (PIs)for the desired outcomes	🟩
	2	Connect assessment strategies to the PI's	🟩
	3	Develop tools to measure attainment of program outcomes	🟩
	4	Establish processes to continually improve the attainment of program outcomes	🟧

1.1 Strategic Initiative : Increased learning outcomes of the students

Development Objective 1.1.2 : To strengthen academic delivery and assessment strategies that address the changing needs of curriculum and expectations of students effectively

Specific Objective		Activity	Status
1.1.2.1	1	Introduce innovative teaching practices in a controlled way and share experiences	🟩
	2	Embed experiential learning through course projects, mini projects and case studies	🟩
1.1.2.2	1	Include open ended experiments in the curriculum	🟩
	2	Develop learning factory – an environment where students experience CDIO cycle	🟧
1.1.2.3	1	Conduct continuous evaluation of students learning through quizzes, assignments and tests	🟩
	2	Formulate the assessment tools to evaluate defined course learning outcomes	🟩
1.1.2.4	1	Collect course specific formative and summative feedbacks	🟩
	2	Formation of class committee to continually seek feedback through class committee meetings	🟩
	3	Collect feedback from students at institutional level about student services and amenities	🟩
	4	Analyze the feedback data and develop action plan	🟩

1.2 Strategic Initiative : Improving employability of graduates

Development Objective 1.2.1 : To enhance employment potential of all our students by equipping them with requisite knowledge, skills and attitudes

1.2.2.1			
	1	Design and deliver value-addition courses to ensure that students acquire personal and professional skills that enhance their employability	
	2	Incorporate employability – related transferrable skills in academic curricula wherever appropriate	
	3	Offer a range of extra/co curricular activities for students which will enhance their personal development	
1.2.2.2	1	Deliver effective career education, information, advice and guidance to students	
	2	Conduct awareness and training programmes for higher education and entrepreneurship	

1.2 Strategic Initiative : Improving employability of graduates

1.2.3 Development Objective : To develop meaningful relationship with industry, employers and alumni

Specific Objective		Activity	Status
1.2.3.1	1	Widen and strengthen links with employers/industry to improve the industry exposure and placement opportunities for the students	
	2	Enhance alumni participation in strengthening industry-institute interaction and students' employment activities	

1.2 Strategic Initiative : Improving employability of graduates

1.2.4 Development Objective: To develop targeted activities to improve the employability of disadvantaged students

Specific Objective		Activity	Status
1.2.4.1	1	Initiate finishing school activities to prepare the weak students industry-ready	
1.2.4.2	1	Conduct specialized soft skill development training programmes to improve employment prospects of disadvantaged students who are not placed in the campus interviews	

Goal-2 : Human Resources

To acquire, develop and retain quality human resources who will contribute effectively and to their best of their ability to student learning and organizational development.

2.1 strategic Initiative : Faculty and staff development

2.1.1 : Development Objective : To strengthen recruitment and faculty development strategies

Specific Objective		Activity	Status
2.1.1.1	1	Improve recruitment strategies for filling vacant positions in timely manner with candidates possessing desired qualification	
2.1.1.2	1	Encourage and support professional development of faculty by deputing to higher education / continuing education program, seminars, workshops, conferences and industrial training	

2.1.2: Development Objective : To strengthen strategies for technical and administrative staff development

Specific Objective		Activity	Status
2.1.2.1	1	Enhance the skill and competency of technicians, administrative and other staff to deliver better services to the students	
2.1.2.2	1	Conduct personality development programs to address motivation for time and material efficiency and friendliness towards faculty and students	

2.2.1: Developmental Objective : To create an environment in which all the faculty and staff work towards institutional goals and are valued for their efforts and contribution			
Specific Objective		**Activity**	**Status**
2.2.1.1	1	Conduct pedagogical trainings to all faculty by internal and external experts	🟩
	2	Conduct faculty induction program to provide pedagogical training to all newly recruited faculty	🟩
	3	Conduct subject/domain specific training programs for faculty	🟩
2.2.1.2	1	Provide training in leadership skills to selected faculty	🟩
	2	Create opportunities for faculty to lead department and institutional activities	🟩
2.2.1.3	1	Set the terms for career growth of faculty and staff	🟩
	2	Conduct formative and summative students' feedback on faculty performance	🟩
	3	Conduct faculty performance appraisal by HoD and senior faculty member of the department	🟩
	4	Conduct deans, department heads and centre heads performance appraisal by the principal	🟩
	5	Conduct head of the institute's performance appraisal by the GC	🟩

2.2 Strategic Initiative: Work Environment			
2.2.2: Developmental Objective : To establish a system to address employee grievances			
Specific Objective		**Activity**	**Status**
2.2.2.1	1	Establish employee grievances redress cell	🟩
2.2.2.2	1	Develop guidelines to address issues related to female employee	🟩

Goal -3: Post Graduate Programs and Researches

To create a supportive environment for strengthening postgraduate programs and research activities, raising the status of institute from a good teaching institute to an excellent teaching and research institute.

3.1 Strategic Initiative: Strengthening post-graduate education			
3.1.1 : Developmental Objective : To strengthen existing and offer new post-graduate programmes			
Specific Objective		**Activity**	**Status**
3.1.1.1	1	Attracting good students for PG programs in engineering by awarding teaching assistantship	🟩
	2	Design and update curriculum to meet the needs of industry and research	🟩
	3	Provide and update equipment and learning resources	🟩
3.1.1.2	1	Review and identify PG programs in engineering which have industry demand.	🟩
	2	Start new PG programs in engineering in phases which have industry demand	🟩
3.1.1.3	1	Allocate teaching and assessment work of UG programs under teaching assistantship	🟩
	2	Include research elements in PG projects	🟩
	3	Encourage and evaluate the projects on original contribution	🟩

3.1 Strategic Initiative: Strengthening post-graduate education			
3.1.2 : Development Objective : To collaborate with institutes of higher learning and industries			
Specific Objective		**Activity**	**Status**
3.1.2.1	1	Participation of industry in academic bodies	🟩
	2	Establish new labs in collaboration with industry	🟩
	3	Joint M.Tech and PhD programs	🟥
	4	Undertake collaborative projects from industry	🟩
	5	Make visits to industry and institutions of higher learning as a part of curriculum	🟩
	6	Encourage co-guideship for projects from industry and institutes of higher learning	🟩
	7	Invite reputed industry personal for guest lectures	🟩
	8	Invite reputed Professors / Scientists from institutes of higher learning for guest lectures	🟩
3.1.2.2	1	Identify the training needs of the faculty members in emerging areas	🟩
	2	Depute the faculty for training in emerging areas	🟩

3.2 Strategic Initiative : Enhancing research activities			
Development Objective 3.2.1 : To improve facilities for research activities			
Specific Objective		**Activity**	**Status**
3.2.1.1	1	Improve the facilities and resources in the areas of strength	
	2	Seek sponsored research grants using the present strength	
	3	Enroll more number of Doctoral students	
	4	Attract good students for PhD program in engineering by providing research assistantship	
	5	Provide incentives to the staff for guiding doctoral degree in engineering	
	6	Encourage the collaborative research work with institutes of higher learning	
	7	Provide financial assistance for conducting literature survey and small projects	
	8	Extend financial assistance for publishing results	

3.2 Strategic Initiative : Enhancing research and consultancy			
Development Objective 3.2.1 : To improve facilities for research activities			
Specific Objective		**Activity**	**Status**
3.2.1.1	1	Improve the facilities and resources in the areas of strength	
	2	Seek sponsored research grants using the present strength	
	3	Enroll more number of Doctoral students	
	4	Attract good students for PhD program in engineering by providing research assistantship	
	5	Provide incentives to the staff for guiding doctoral degree in engineering	
	6	Encourage the collaborative research work with institutes of higher learning	
	7	Provide financial assistance for conducting literature survey and small projects	
	8	Extend financial assistance for publishing results	
3.2.1.2	1	Identify the potential emerging areas of research	
	2	Collaborate with institutions of higher learning and industry to strengthen the capacity in the new areas	
	3	Obtain research centers status for the new areas from the University	
	4	Provide research grants to carry out the research work	
	5	Increase the infrastructure	
3.2.1.3	1	Establish focused research groups and research clusters	
	2	Seek grants to establish the centers of excellence	
	3	Provide guidance by experts to researchers in emerging areas	
	4	Provide guidance to the researchers about different financial assistances available to carry out research	
	5	Encourage the industry driven research activities	

Goal- 4: Support Systems and Services

To provide effective and efficient support systems and services, that meet the needs of academic programs, faculty and student body.

4.1: Strategic Initiative : State-of-the-art infrastructure for teaching and learning			
4.1.1 Development Objective: To develop, build and maintain modern well equipped physical infrastructure			
Specific Objective		Activity	Status
4.1.1.1	1	Update class rooms with instructional smart-media technology and access to internet	
4.1.1.2	1	Develop an ambient and environment friendly inclusive campus	
4.1: Strategic Initiative : State-of-the-art infrastructure for teaching and learning			
4.1.2 Development Objective: To develop and strengthen well equipped and maintained state –of-the-art laboratories meeting curricula and research needs			
4.1.2.1	1	Update and maintain laboratories to meet curricular needs	
4.1.2.2	1	Strengthen laboratories in selected thrust areas to initiate research activities	
4.1.2.3	1	Create laboratories facilities to achieve the status of centre of excellence in selected	
4.2: Strategic Initiative : Library and information Technology			
4.2.1 : Developmental Objective : To provide a library with rich collection of references material, a system that works effectively to enhance learning, teaching and research			
4.2.1.1	1	Strengthen library with adequate number of text books, reference books and technical journals	
4.2.1.2	1	Strengthen digital library with increased journal subscription and e-books	
4.2 Strategic Initiative: Library and information technology			
4.2.2 : Developmental Objective : To develop infrastructure to effectively use information technology for enhancing the learning and for sharing of information across the institute and stake holders			
4.2.2.1	1	Expand and upgrade campus wide information technology infrastructure to support the instructional, research and learning activities of faculty, staff and students	
4.2.2.2	2	Leverage information technology to network with all the stake holders	

Goal -5 : Management and Administration

To evolve and implement management and administrative mechanisms those are responsive, reliable and efficient

5.1: Strategic Initiative : Management Capacity Enhancement			
5.1.1 : Development Objective : To improve managerial and administrative capabilities of institutional and departmental leaders for effective implementation of academic and non-academic reforms			
Specific Objective		Activity	Status
5.1.1.1	1	Train the institutional and departmental leaders to develop managerial and administrative capabilities	
5.1.1.2	1	Ensure institution wide participation in developmental activities	

5.1.2 : Development Objective : To evolve and implement management and administrative mechanisms that are responsive, reliable and efficient			
5.1.2.1	1	Develop and implement systems and structures to manage institutional finance and other resources.	
5.1.2.2	2	Delegate decision making powers to department and cell heads with accountability.	

5.2: Strategic Initiative: Leveraging Academic Autonomy			
5.2.1 : Development Objective : To leverage academic autonomy to bring about academic reforms to deliver better value to the students continually			
Specific Objective		**Activity**	**Status**
5.2.1.1	1	Putting proper governance structure and systems required for exercising academic autonomy	
5.2.1.2	1	Monitor activities planned for academic and non-academic reforms on a continuous basis at the department and institutional level	
5.2.1.3	1	Empowering faculty members for effective implementation of academic autonomy	

5.2: Strategic Initiative : Leveraging Academic Autonomy			
5.2.2 : Development Objective : To prepare institution for accreditation / re-accreditation			
Specific Objective		**Activity**	**Status**
5.2.2.1	1	Create awareness about changing accreditation requirements	
5.2.2.2	1	Strengthen systems and processes for meeting the accreditation requirements continually	

Student accolades

ICAM-3D CAR DESIGN CHALLENGE

BVB bagged 1st 2nd and 4th prizes in "ICAM - 3D CAR DESIGN CONTEST" organized by SAEINDIA at Chennai

1st Prize by ME students	2nd Prize by ME students	4th Prize by AU students
Gopal Krishna Kulkarni	Anoop N N	Sindhoor Hegde
Ganesh Kakhandki	Bhushan Ganiger	Durbar Ghosh
Shrihari Kulkarni		

BVB won the First Prize at Manthan-2015 competition organized by FKCCI

Biotechnology
Ms. Prerana Koti and
Mr. Ritesh Sanu
Cash Prize: Rs. 1.5 Lakhs

Project Idea: "Production of metarhizium anisoplae, a fungus that acts as a biopesticide and can act on a range of pests"

SRISHTI-2015

BVB bagged the "CHAMPIONSHIP TROPHY" for overall performance
A three day state level technical event

Electric Solar Vehicle Championship

BVB was one among the top ten teams at ESVC competition, Asia's Largest Solar vehicle Championship
The team BVB was supported by College management, Altair Engineering, Bangalore and Robert BOSCH, Bangalore.

ECO-KART 2015

BVB's 'ELECTROBUG' was awarded as the Fastest Eco-kart-2015
Event was organised by the SAE INDIA

KPIT SPARKLE 2015

BVB bagged 4 out of total 8 Prizes at Prestigious KPIT SPARKLE 2015. Competition was organized by KPIT Technologies Ltd in association with COEP

Prize 1:
Maximum Ideas Submitted (95 out of 424)

Prize2:
Maximum number of Ideas shortlisted for Final Round (7 out of 37)

Prize3:
Silver Prize: Cash prize of Rs. 1 Lakh
Topic: Precise Accident Prevention System (PAPS)

Student Members:
Sourabh Alagundagi (E&C)
Rajat Bapuri (E&C)
Sumitra Malagi (CSE)

Financials

K.L.E. Society's B.V. Bhoomaraddi College of Engg. & Tech., Hubli
Consolidated income and expenditure statement for the year 2014-2015
(Includes Teqip grants and Capital expenditures

Income	Amount (Rs.)	Revenue Expenditures	Amounts (Rs.)	Capital Expenditures	Amount (Rs.)
Grants	941,45,883.00	Salary to staff	2949,43,184.00	Building	150,17,104.00
Fees	2867,07,918.00	Establishment Expenses	334,29,666.50	Equipments	189,63,413.00
Specific Fees	706,03,880.00	Departmental Current Expenses	153,74,883.15	Computers	133,67,000.00
Interest on Bank Accounts	106,32,245.92	Expenses against Specific Fees	494,21,580.00	Furniture & Fixtures	61,08,520.00
Rent	2,38,976.00	Repairs & Maintenance	20,22,275.00	Library Books	9,47,950.00
Miscelleneous Receipts	28,31,475.38	Depreciation	504,28,862.87	H.T. Installation	7,33,486.00
AICTE and Other Grant	26,52,394.00	Revenue Expenses (TEQIP Grant)	116,01,378.00	Books & LR Software (TEQIP Grant)	10,12,514.00
TEQIP Grant	400,00,000.00			Equipments (TEQIP Grant)	154,81,148.00
Total	**5078,12,772.30**	**Total**	**4572,21,829.52**	**Total**	**716,31,135.00**
		Capital Expenditures Total	716,31,135.00		
To Deficit (Excess of Expenditure over Income	210,40,192.22				
Grand Total	**5288,52,964.52**	**Grand Total**	**5288,52,964.52**		**-**

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Alumni Association -Events

TRAINING PROGRAMME ON MANUFACTURING MANAGEMENT SYSTEM

The training programme on manufacturing management system is organized by department of Industrial and production department from 17.03.2014 to 29.03.2014 the resource person for the programme Mr, Dilip Kembhavi President Shivasoft Edmonton, Canda trained the faculties of Industrial & Production, Mechanical, and Automobile on manufacturing management system He has donated the software Shiva soft developed by him to BVBCET.

Mr.Dilip Kembhavi trained the faculties on production planning, scheduling through hands on activites.

Reunion of 1989 batch on their Silver Jubilee year 2014

The graduates from all the branches of Engineering met in BVB Campus to celebrate their Silver Jubilee Reunion on 27th December, 2014 in Senate Hall. During a day full program the teachers who taught have been felicitated. A detailed College college presentation was made by Dr. P G Tewari, Dean (Academic Affairs). All the fellow batch mates cherished their students days, visited all the corners of the campus to capture the good old memories.

Prof. Sujata Kotabagi anchored the program. The program was supported by the Alumni Association of BVB College. Prof.V.S.Dhotrad retired Principal, Prof.S.B.Kurbar, Dr.P G Tewari, Prof. K R Biradar, Dr. Sanjay Kotabagi, Dr. Uma Mudenagudi, Dr.A.B.RAju were part of the celebration.

BVB Executive Leadership Team

Dr. Ashok Shettar
Principal

Prof. B. L. Desai
Vice-Principal

Deans

Dr. P. G. Tewari
Dean - Academic Affairs

Dr. B. B. Kotturshettar
Dean - Planning & Development

Dr. Uma Mudenagudi
Dean - Research & Development

Prof. S. B. Kurubar
Dean - Examinations

Dr. Anil Nandi
Controller of Examinations

Dr. Sanjay Kotabagi
Dean - Student Welfare

Center Heads

Prof. Nitin Kulkarni
Director, CTIE

Prof. Gopal Joshi
Director, CEER

Dr. Satyadhyan Chickerur
Coordinator, CIAP

Prof. C. D. Kerure
Placement Officer

Prof. Parikshit Hegde
Head, Infocell

Dr. M. R. Patil
Head, C & M Cell

Heads of Departments

Dr. Anil Badiger
Automobile

Prof. Gururaj Joshi
Architecture

Prof. A. C. Giriyapur
Automation & Robotics

Prof. L. R. Patil
Bio-technology

Dr. S. S. Quadri
Civil

Prof. K. R. Biradar
Computer Science

Dr. A. B. Raju
Electrical & Electronics

Dr. Uma Mudenagudi
Electronics & Communication

Dr. B. B. Kotturshettar
Industrial Production

Dr. Meena M
Information Science

Dr. Nalini Iyer
Instrumentation

Dr. P. G. Tewari
Mechanical

Prof. S. V. Seeri
Master of Computer Applications

Dr. S. V. Patil
Master of Business Administration

Dr. S. B. Kapatkar
Physics

Dr. B. S. Shettar
Chemistry

Dr. G. B. Marali
Mathematics

Dr. Sanjay Kotabagi
Humanities

Prof. T. V. M. Swamy
First Year

Campus Snapshots

Our Vision

To be one of the nation's premier engineering colleges by achieving the highest order of excellence in teaching and research. We will be the preferred choice of students seeking engineering and management education.

Our Mission

- To impart quality technical education that meets the needs of present and emerging technological world.
- Strive for student achievement and success, preparing them for life and leadership.
- To provide a scholarly and vibrant learning environment that enables staff and students achieve personal and professional growth.
- To contribute to advancement of knowledge, in both fundamental and applied areas of engineering and technology.
- To forge mutually beneficial relationships with governmental entities, industry, society and the alumni.

Strategic plan of BVBCET defines how we will be successful within a challenging and changing engineering education environment. The plan has been devised to enrich the experience of our students, staff and stakeholders, and has been developed with their involvement and support through an extensive consultation programme that has also engaged with alumni and external partners. The inputs from TEQIP–Project Implementation Plan document have been considered while formulating the strategic plan of the Institution.

ISO 9001:2008 CERTIFIED

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