

ANNUAL | 2015 -16









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 254 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 1,25,000 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 first annual report of KLE Technological University, Hubballi, for the year 2015-16. 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 Vice Chancellor



Dr. Prabhakar Kore Chancellor



Creating Value Leveraging Knowledge

Introduction

KLE Technological University (KLE Tech) has its roots in one of the premier engineering institution of Karnataka, B. V. Bhoomaraddi College of Engineering and Technology, Hubli (BVB). The founding organization KLE Society, Belgaum, established BVB college in 1947 with an aspiration of creating an institution that would lay the foundation of modern engineering education in northern region of Karnataka. Over the years, it evolved to reach and hold a unique position of pride in the technical education system of India. As we entered into the 21st century, the college undertook comprehensive reform process to adapt to the challenging global engineering education scenario. In pursuit of academic excellence, the college attained academic autonomy from University Grant Commission (UGC) in the year 2007. As an autonomous the college, BVB established its distinctive character in the academic space through its curriculum and outstanding student experience. Over the time it gained tremendous credibility with the industries and employers and emerged as a brand to reckon with. The Alumni of the Institute have done exceedingly well in all spheres of life at both national and international levels and brought name and fame for themselves as well as to their Alma Mater.

The times have changed, and the higher educational institutions need to continually innovate to maintain and enhance their relevance to meet the ever changing demands of global economies. Apart from delivering good quality education, the institutions are expected to develop their capacity in research and innovation. They also need to undergo a fundamental transformation in terms of their role in the society, mode of operation, and economic structure and the scale at which they operate.

Keeping the above challenges in mind BVB College of Engineering and Technology, undertook strategic initiative of transforming itself into a University of national distinction. In 2014 the college was recognized as a state private University by Government of Karnataka. The rich heritage of BVB College as one of the best engineering college combined with brand equity of KLE Society are the starting points for KLE Technological University to emerge as a University with a national distinction







Student Enrollment

Admission Process

The University does not conduct a separate test for the admissions. The admission to the programs of University is based on the Government of Karnataka rules for professional education institutions. The following is the mode of selection of students for admissions (as per rules of Government of Karnataka).

- Common Entrance Test (CET) by Karnataka examination Authority (KEA): Admission to 40 % of seats are done by government of Karnataka based on CET ranking and reservation policies of the state. The seats are distributed through central counseling done by KEA. For the aided intake the 95% of the seats are allotted by the KEA. Equal weightage is given to score in CET entrance test and qualifying examination score, while allotting the ranks.
- All India Examination conducted by the 2. Consortium of Medical, Engineering & Dental Colleges of Karnataka (COMED-K): Admissions to 30 % of seats in unaided courses are done on the basis of COMED-Krankings. The seats are allotted by COMED-K through central counseling. Equal weightage is given to score in COMED-K entrance test and qualifying examination score, while allotting the ranks



The remaining 5% seats in aided courses and 3. 25% seats in unaided courses are filled as management seats on the basis of academic records of qualifying examinations.

> For post graduate programs, Post Graduate Common Entrance Test (PGCET) conducted by Karnataka examination authority, is used for the selection of students.



Undergraduate Programs

Sl.No.	Programme	Sanctioned Intake
1	Civil Engineering	120
2	Mechanical Engineering	240
3	Electrical & Electronics	60
4	Electronics & Communication	240
5	Computer Science & Engineering	240
6	Automation & Robotics	60
7	Bio Technology	60
8	Architecture	60
		1080



Postgraduate Programs



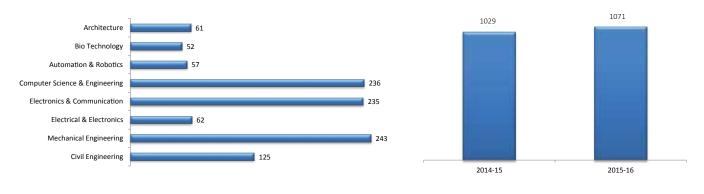
Sl.No.	Programme	Sanctioned Intake
1	Structural Engg.	18
2	Production management	18
3	Energy Systems Engg.	18
4	Computer Science &Engg.	24
5	Digital Electronics	24
6	VLSI Design & Testing	24
7	Machine Design	24
8	Master of Computer Application	60
9	Master of Business Administration	60
		270

Research Programs

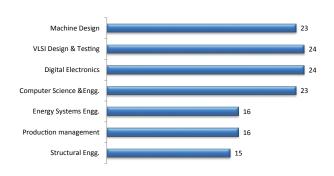
Sl.No.	Programme
1	School of Biotechnology
2	School of Civil and Environmental Engineering
3	School of Computer Science & Engineering
4	School of Electrical & Electronics Engineering
5	School of Management and Social Sciences
6	School of Mechanical Engineering
7	Centre for Engineering Education Research

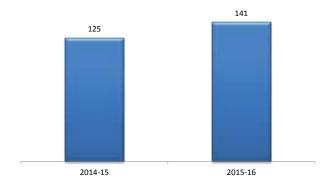


Student admissions for the year 2015-16- UG

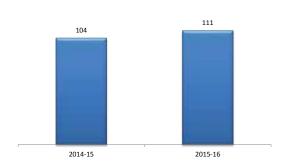


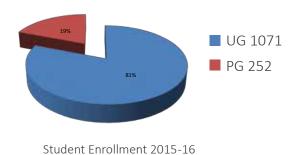
Student admissions for the year 2015-16-PG











38% Male
62% Female

Student Gender (UG) 2015-16



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

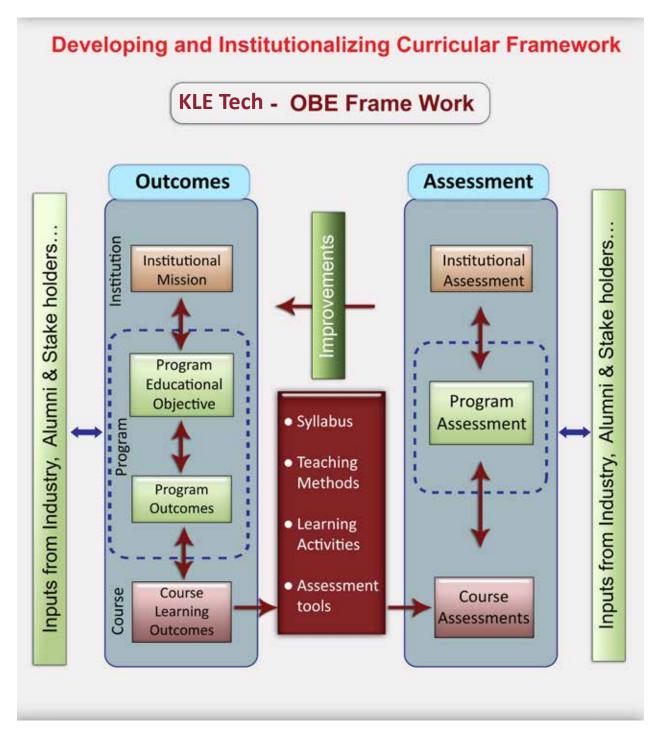
The initiatives undertaken to enhance the quality of education and student performance are presented under following three tenets of academic quality

> Advances in Curriculum Faculty Development Student achievements

Advances in Curriculum

The University has undertaken 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.

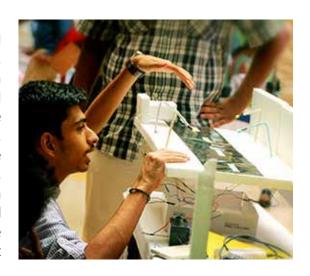


Major Academic initiatives Undertaken:

During the first academic year 2015-16 following are the major academic initiatives undertaken to improvise the teaching and learning process.

Introducing 'Engineering Exploration'

A new course by name "Engineering Exploration" is introduced in the new curriculum of KLE Tech from the year 2015-2016. This course is co-designed with Virginia Tech, USA keeping in line with global best practices of Engineering Education and the changing needs of Engineering Profession. The course follows active and collaborative learning pedagogical practices. Through this course students of first year engineering explore engineering and get exposed to Engineering Design Process, Multi-disciplinary nature of engineering, problem solving, data analysis, Team Building, Professional Ethics, Sustainability and Project Management. Another unique feature of this course is the involvement of faculty members drawn from different engineering disciplines in design and delivery of the course.





Social Innovations

A course on 'Social Innovation' has been conceptualized and offered to the students of first year undergraduate engineering. The objectives of the course are as follows:

- To build students' capacity to use problem solving skills to address social issues through innovative solutions.
- To transform students' perspective on the world around them by enabling them to identify areas ripe for innovation. Last year, over 250 projects in social space are done by First year undergraduate engineering students, which help them to connect with societal issues.

Principles and Practices of Engineering **Education:**

Most of the M.Tech students join teaching profession after their degree without any training in teaching. It was felt necessary to expose them to Basics of Engineering Education through a new course "Principles and Practices of Engineering Education". It is introduced as a core course for all MTech courses of KLE Tech from 2015-2016 in 2nd semester. The course is designed based on the rich experience of KLE Tech in practicing Outcome Based Education since several years.



PhD in Engineering Education

KLE Tech is one of the first few Institutions in India offering PhD in Engineering Education. This program is started from 2015-2016. This program is designed with a vision of contributing to leadership development in Engineering Education. Experiences of a few of the leading universities in the world are used in designing the program.

Faculty Development Programmes

Teachers provided with financial support to attend conferences / workshops and towards membership fee of professional bodies during the year 2015-16

Year	Name of the teacher	Name of conference/ workshop attended for which financial support provided	Name of the professional body for which membership fee provided	Amount of support (in INR)
2015 -16	Suhas B Shirol	Workshop on "VLSI Verification" during 20th July to 1st August 2015 at BMS College Bangalore	Workshop	64,112.00
2015-16	Vishal B Pattanashetty	International Conference on "International Transportation Electrification Conference India 2015" during August 27th - 29th, 2015 at Chennai	Conference	36,590.00
2015-16	Ashok M Sajjan	International Conference on "Direct Digital Manufacturing and Polymers" (ICDDMAP2015) during 28th to 31st Oct 2015 at Dharwad	Conference	5,700.00
2015-16	G V Muddapur	International Conference on "Condensed Matter & Appled Physics" (ICC 2015). during 30-31 Oct 2015 at Rajasthan	Conference	13,020.00
2015-16	R M Banakar	International Conference on "Green Computing & Internet of Things" during 8-10 Oct 2015 at Delhi.	Conference	23,400.00
2015-16	Nitya N Kulkarni	3'rd International Conference on "Innovations in Computer Science & Engineering" (ICICSE 2015) during 7-8th August 2015 at Hyderbad	Conference	5,295.00
2015-16	Kiran R Patil + Rohini Jyot	International Symposium on "Advances in Power Distribution Engineering: Distributed Generation, Micro-Grid and Renewable Integration" during 28th - 29th August 2015 at Mysure.	Conference	25,064.00
2015-16	Aravind Kulkarni	Workshop on "Make in India Through Engineering Education and to share the experiences" during 3rd Oct 2015 at NITK Suratkal	Workshop	9,009.00
2015-16	Aravind Kulkarni	CII National Conclave on "Higher Education" during 18 and 19 Nov 2015 at Coimbatore	Conference	7,440.00
2015-16	Bharati M Shettar	International Conference on "Mathematics 2015" during 26-28 Nov 2015 at Thiruvanathapuram, Kerala.	Conference	18,455.00
2015-16	Nagaraj Navalgund	Work shop on "MOOCS" during at IIMB	Workshop	5,938.00

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.

Research centers

BVBCET has 13 research centers affiliated to VTU with 56 doctoral faculty guiding 159 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-2: Details of registered PhD candidates at KLE TECH

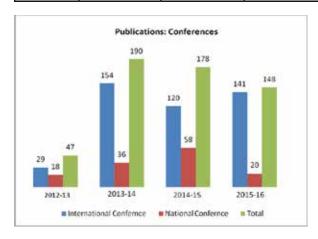
Sl. No.	Department	No. of PhD Guide	No. of PhD registered
1	Biotechnology	3	3
2	Civil and Environmental Engineering	3	3
3	Computer Science & Engineering	5	7
4	Centre for Engineering Education Research	1	1
5	Electrical &Electronics Engineering	3	4
6	Mechanical Engineering	5	6
7	Management and Social Sciences	1	1
8	Social Sciences	1	2
9	Applied Sciences	5	5
	Total	27	32

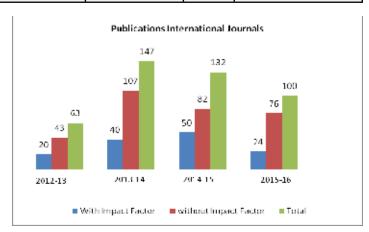
Summary of publications

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

Table-3: Summary of papers published during 2013-14, 2014-15 & 2015-16

	Int Jo	urnal					
Year	Impact Factor (IF)	Without Impact Factor (IF)	National Journal	International Conference	National Conference	Total	Impact factor
2013-14 BVB	40	107	07	154	36	344	Av. IF=1.510 Maximum=4.357
2014-15 BVB	50	82	16	120	58	326	Av. IF=1.84 Maximum=5.510
2015-16 KLE Tech- BVB	24	76	10	141	20	271	Av. IF=1.01 Maximum=5.46
Total	114	265	33	415	114	941	





Summary of external funded projects

Research grants received: 2008-2016

Number of research projects : 16

Number of modernization projects : 05

Total Amount : 175.65L+46.9L = 222.55 L

Funding agencies : DST, NRB, AICTE, VTU & VGST

Summary of external funded projects

Research grants received: 2012-2016

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
4	2015-16	02	23.31 L	UAS, Continental Ltd Bangalore
	TOTAL	11	138.95 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, 18 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 2011-15 are doing post graduation either in India or abroad

Year	Number of REU students	Number of Guides	Number of publications	Year	Number PGs from REU students
2011-12 (completed)	18	22	25	2011-12 (completed)	8
2012-13 (completed)	31	40	20	2012-13 (completed)	8
2013-14 (Completed)	3 0	44	15+8	2013-14 (Completed)	5
2014-15 (Completed)	46	48	26	2014-15 (Completed)	4
2015-16 (Completed)	67	54	31	2015-16 (Completed	6

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

Focus areas of this cluster are:

- 1. Internet of Things
- 2. Agriculture
- 3. Industrial Automation

Outcomes:

- Total project proposals sent in 2015-16: 4
- Number of products in progress: 1
- Number of Industry and Institute collaborations: 2







Centre for Material Science

Focus areas of this cluster are:

1. Composites for Structural, automotive 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. Agricultural applications

3. Membranes for fuel cell and Pervaporation applications

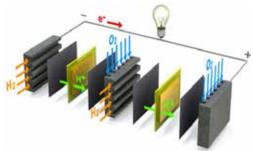
- a. Fuel Cell Membranes
- b. Pervapouration Membranes
- c. Gas membranes

4. Bio-plastic production

- a. Bioplastic material
- b. Environmental applications

5. Biochemical Sensors using III-nitride nanostructures







Flask culture

Outcomes:

- Total Publications in 2014-16: 20
- Total patents in process+ applied in 2014-16: 07 (as on date)
- Total project proposals sent in 2014-16: 14
- Total fund received in 2014-16: Rs.70 Lakhs (External)
- Number of products in progress:02
- Number of Industry and Institute collaborations: 01

ENERGY CLUSTER

Focus areas of this cluster are:

- Development of solar wind hybrid systems
- Development of solar multi-crop dryer
- Development of Biomass fuelled cook stoves

Outcomes:

• Total Publications in 2015-16 : 20

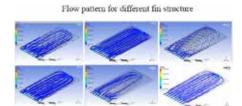
• Total patents in process+ applied in 2015-16 :01

• Total project proposals sent in 2015-16 : 04

• Total fund received in 2015-16 : Rs.6.00L (in progress)

• Number of product development (in progress) : 03

• Number of Industry and Institute collaborations : 04







Entrepreneurship

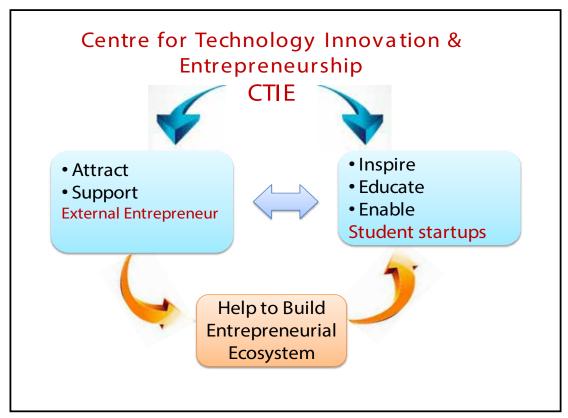
Centre for Technology Innovation and Entrepreneurship (CTIE):

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 KLE Tech aims to build this culture of startups at the University. Using a seven step framework to build technology ventures, KLE Tech-CTIE boasts having 38 companies at its University campus and is growing.

- | 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 University 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. 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.

- 38 technology companies on campus
- 25% of these are student/fresh graduate start-ups
- Over 18,000 sq. ft of incubation space given away
- Over 9000 Sqft Techpark / Accelerated
- Over 230 plus jobs created

Noteworthy CTIE Start-up successes:

Kooki Consumer Electronics

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

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.

CTIF Student Interventions:

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.

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.





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.

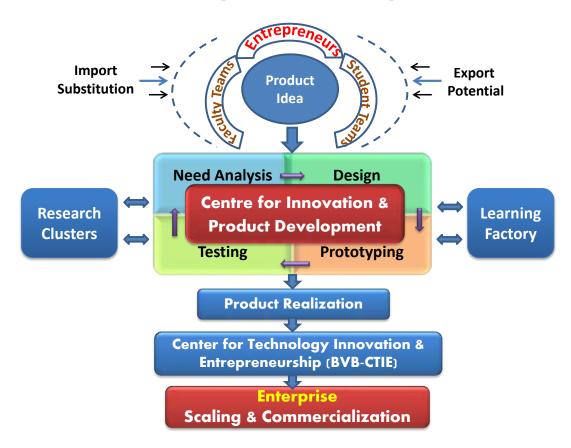




Global Innovation and Entrepreneurship:

This is a multi-disciplinary and multi-cultural team activity, where in students from University of Massachusetts and KLE Tech-BVB Hubballi 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 200 students from BVB have graduated out and remarkably many have started their ventures at BVB.

KLE Tech Centre for Innovation & Product Development IKLE Tech - CIPD1



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

Universal Tool & Cutter **Grinding Machine**



Universal Cylindrical Grinding Machine



Laser Cutting Machine



FARO 3D Imager



CUBEPRO 3D Printers (Duo & Trio)





Vertical Screw Type Injection Molding Machine



Plasma Cutting 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.

Computer Networks : Certification program was conducted in association with Juniper Networks

Parallel Computing and Applied Parallel Computing:

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

Fundamentals of IT:

Has been offered for 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.

Manufacturing technology:

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

Guest Lectures from Industries:

Every department has organized Lectures from the industry in the form of Expert Lectures, Coteaching &career guidance.

Internship at various industries

Sami Labs	4
Biocon Analytical Division	5
True Tech	2
Kaiga	1
Biozeen, Bangalore	4
Prajna Biosciences	2
Cipla, Goa	1
Prosetta, Mysore	1
Stelis Biopharma Pvt Ltd	1
Informatica	2
Infosys	15
Microsoft	7
Robert Bosch	15
Hiwi(GDV) ,BVB Campus,Hubli	2
INSZoom	3
Sankalp	4
CrimsonLogic	1

Mock interviews by alumni from the industries:

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

PG Projects in Industries:

150 PG students have done their project in 42 **Industries**

MoU's Signed with

- 1. Reliance Jio Infocomm Limited
- 2. World Alumni Network Pvt. Ltd.
- 3. MMRFIC Technologies
- 4. Juniper Networks



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:

International Conference on Enabling 'Make in India':

University organized its first international conference on 'Enabling Make in India: Challenges and Opportunities for Engineering Education'. It was organized during January 6-8, 2016. Honourable Minister for Defence Sri Manohar Parrikar inaugurated the conference. More than 70 top colleges of the country and more than 15 expert speakers from four countries (USA, France, South Korea and Singapore) participated in the conference. Total numbers of delegates participated in the conference is 425.







The aim of the Conference was to bring about greater understanding of the issue involved in Make in India, sharing of world-wide best practices and experiences in this area and evolve a broad framework for the transformative process that enables the initiative.

The conference was inaugurated by Sri.Manohar Parikar, Hon. Defence Minister, Government of India.

The themes of the conference are:-

- 1. Creating Transformative Educational Experience
- 2. Building Strong Design and Product Realization Skills
- 3. Facilitating Realistic Production Environment in the Campus
- 4. Enabling Entrepreneurial Ecosystem in the Campus
- 5. Manufacturing Reinvented Convergence of Technologies
- 6. Skilling India: Industry and Government Perspectives

Case Studies

Countries across the world have undertaken initiatives similar to 'Make in India', to create jobs and boost their economies. Several efforts have been made by the academic institutions and Universities to contribute to these initiatives in their respective countries. The case studies to be presented in the conference will focus on, sharing of successful practices / models that are evolved by the academic institutions across the world to positively impact similar movements like 'Make in India'

	Prof. Devdas Shetty	
1	Dean, School of Engineering and Applied Science, Professor of Mechanical Engineering,	Case Study on designing and creating smart products through
	University of the District of Columbia	"maker movement"
	Washington, DC 20008, USA	
2	Prof. Lueny Morell , MS, PE President, Lueny Morell& Associates &Founder & Director of InnovaHiEd	The Learning Factory "Working Together to Develop Talent for Manufacturing"
3	Dr. S K Ramesh Ph.D Dean, College of Engineering and Computer Science & Professor of Electrical and Computer Engineering, California State University, Northridge, CA 91330-8295	CSU Northridge Initiatives in Advanced Manufacturing, Entrepreneurship and Innovation
4	Prof. Wonjong Joo Professor Wonjong Kim Accreditation of Engineering Education in Korea (ABEEK)	Development and Practices of Innovation Ecosystem in Engineering Education: Role Plays of Universities, Industry, and Government



Engineering Education Publications and participation in ICTIEE – 2016

In the third International Conference on Transformations in Engineering Education (ICTIEE'16), which was co-organized by IUCEE (Indo-US Collaboration for Engineering Education) and College of Engineering, Pune, during January 8-12, 2016, 99 authors from our institution presented 49 papers.



KLE Tech - IUCEE Webinar course on Outcome Based Education

The understanding and experience of practicing outcome based education in our Institution is being shared with the community of engineering educators in the form of workshops and courses. KLE Tech has started offering an online certificate course on Outcome Based Education in collaboration with Indo Universal Collaboration for Engineering Education. Dr.Ashok Shettar, Dr.Prakash Tewari and Dr.Gopalkrishna Joshi are the resource persons for this course.



1st IUCEE Gurukuls Summit

KLE Tech is emerging as a leader and a role model in Engineering Education. And many Institutions in the country are showing interest in learning from our practices. IUCEE is spreading this through formation of cluster of Gurukuls, which is a group of Engineering Institutions with demonstrated capabilities and aspirations to raise their level of performance.

The first IUCEE Gurukuls Summit-2016 was organised at KLE Technological University, Hubballi on 28-29th July, 2016. The IUCEE Gurukuls for Learning and Outcomes Based Education (iGLOBE) program addresses this vital need for institutions to develop self-reliance towards achieving excellence in engineering education. IUCEE will facilitate these Gurukuls (i.e. Centers for Excellence) which will be modeled as a blend of the Centers for Engineering Education and Centers for Teaching and Learning around the world.

This summit witnessed about 65 participants from 20 Gurukuls belonging to different Engineering institutions across the country. The discussions of the two day workshop culminated by identifying the following prioritized themes for collaboration:-

- A. Building Engineering Education Research Culture
- B. Developing Institutional Strategic Plan
- C. Building collaborations with Industry/external experts/institutions
- D. Adopting Outcomes Based Education (OBE)
- E. Innovating Curriculum (Content, Delivery, Assessment)
- F. Preparing faculty leaders for future
- G. Encouraging Entrepreneurship and Social Engagement
- H. Attaining autonomous status
- I. Updating Infrastructure

Faculty Conclave 2016

Faculty Conclave – the in-house annual event which provides a forum for the faculty members to showcase their innovative experiments and share their experiences was conducted on July 27-28, 2016 at KLE Tech., Hubballi. The sixth in the series – "Faculty Conclave 2016, saw a total of 40 papers authored by 111 faculty members. The papers belonged to the broad themes of Curriculum Innovation, Experiential Learning, Outcomes Assessment, Graduate Program Experiences and Pedagogies in Engineering Education.



Workshop on "Pedagogy Training for Engineering Educators"

A five days workshop on "Pedagogy Training for Engineering Educators" was organised and conducted at BVB College and Technology, Hubballi during July 18-22, 2016. This program was organised for faculty members of Engineering Colleges and Polytechnics and supported by State Project Facilitation Unit (SFFU), GoK, as part of TEQIP.

This workshop aimed at equipping faculty members with the knowledge and skills required to practice engineering education effectively. All twenty sessions were woven around the philosophy and practice of OBE.



Summary	
Number of participants	55
Number of participants from Polytechnic colleges	37
Number of participants from Engineering colleges	18
Number of colleges	14
Number of Polytechnic colleges	10
Number of Engineering Colleges	4



Recognitions

TBI Recognition by DST

KLE CTIE has been recognized as Technology Businiss Incubator (TBI) by Department of Science and Technology, GOI, and a grant of Rs 3.40 Crores has been Scantioned.

KLE Tech awarded as Ranked No 1

KLE Tech awarded as Ranked No 1 for "Outstanding Institutional Transformation in Engineering Education" by IUCEE (India US Council for Engineering Education)





Dr. Hans Hoyer, Secretary General IFEES (International Federation of Engineering Education) Congratulating the Vice Chancellor.



KLE Tech Vice Chancellor Dr. Ashok Shettar receiving award from Prof. Krishna Vedula, Executive director IUCEE

New infrastructure

Our infrastructure is the key enabler for us to deliver world-class educational experience for our students. A major building project construction of School of Electronics is being undertaken.

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.



School of Electronics Engineering



Musical Fountain

IT Platforms and Services

The University network is on OFC. 39 managed switches, 150 access points, UTM, AAA server are part of new network. Back bone capacity is 10 Gbps Internet speed is 225 Mbps

Current network can cater up to 25000 plus student and 5000 faculty with very effective bandwidth management, currently more than 30 servers are running, with modern audio and visual facilities, servers like NPTL video learning and moodle open source learning platform are part of new network.

The present status of KLE Tech Campus network

- Campus back bone is of OFC link with capacity of only 10 Gbps.
- L3 based core switch with 250 Gbps capacity
- CPE Based technology for telephone.
- Number of nodes in Campus is 2300 plus(desk tops)
- With 08 sub nets and internal LAN with different topologies
- Internet speed is 225 Mbps (service provider is BSNL and TATA)
- 150 wireless access points across campus, 76 access points covering entire hostels.
- Modern equipment like Cyber roam 750ing,AAA server, controller unit, NMS etc

Board of Governors

Name	Designation
Dr. Prabhakar B. Kore	Chairperson
Prof Ashok S. Shettar	Member
The Principal Secretary/Secretary, Higher Education, Government of Karnataka.	Member
The Principal Secretary/Secretary, Medical Education, Government of Karnataka.	Member
Prof M. I. Savadatti	Member
Prof R. Natarajan	Member
Prof B. S. Sonde	Member
Dr. Sudha N. Murty	Member
Prof P. G. Tewari	Member
Prof B. L . Desai	Member Secretary

Student accolades

KLE Tech - BVB sweeps top prizes at BOSCH Inscribe 2015

BVB has won 2nd, 3rd & 4th Prizes at prestigious Bosch Inscribe-2015 Technical Idea Presentation Competition held vesterday (24th November) at Robert Bosch, Bangalore





KLE Tech - BVB wins "Idea Incubator" award at KPIT Sparkle-2016

KPIT Sparkle is annual national design and development innovation contest for engineering and science students across India organized by KPIT Technologies.

KLE Tech - BVB Wins "Ultra Golf Kart Championship (UGKC) - 2016"

BVB-KLE Tech. student team 'BVB Superstars', comprising of students from Department of Automobile, Automation & Robotics, Instrumentation and Electronics, and Electronics and Communication, Engineering have won the "Ultra Golf Kart Championship (UGKC)- 2016".



KLE Tech - BVB Wins National Championship in Hybrid **Vehicle Challenge-2016**

BVB was one among the top ten teams at BVB-KLE Tech. Student team 'R-Evolution Minds', comprising of students from Department of Automobile and Instrumentation Engineering under the aegis of 'BVB Motorsports Club' has won the prestigious National Championship in Hybrid Vehicle Challenge-2016.

KLE Tech - BVB shines in Internationals

KLE Tech - BVB student team "Racing Rebels", a group of interdisciplinary students from Department of Automobile, Mechanical, Civil and Computer Science Engineering under the aegis of "BVB Motorsports Club" have brought laurels to the institution by winning third place in an international level event, "International Series of Karting-2016" held at Lahari Resorts, Hyderabad from 8th to 11th March 2016.





KLE Tech - BVB Bagged Overall Championship in SRISHTI-2016

BVB College of Engineering and Technology, Hubli, won the "CHAMPIONSHIP TROPHY" at the 3 days State level Project Exhibition and Competition organized by Akhila Bharatiya Vidyarthi Parishad at CMR Institute of Technology (CMRIT), in Bangaluru.

KLE Tech-BVBCET Bags 4th Place on Debut

TEAM VEGADOOTH RACING from B.V. Bhoomaraddi College of Engineering & Technology participated in SAE India SUPRA competition and secured 4th position in their debut year among 124 teams at Buddh International Circuit, Greater Noida during 3rd to 9th July, 2016. An interdisciplinary team of 21 students from BVB Motorsports Club participated in SUPRA SAEINDIA 2016



Financials

Consolidated income and expenditure statement for the year 2015-2016 (Includes Teqip grants and Capital expenditures)

Income	Amount (Rs)	Revenue Expenditures	Amount (Rs)	Capital Expenditures	Amount (Rs)
Academic Receipts	1390,28,390.00	Staff Payments & Benefits	305,91,007.00	Buildings	435,37,768.00
Grants and Donations	-	Academic Expenses	153,66,798.00	Equipments	70,03,331.00
Income from Investments	82,50,000.00	Administrative & General Expenses	122,68,359.00	Computers & Softwares	68,93,463.00
Other Incomes	33,81,442.06	Transportation Expenses	-	Furnitures & Fixtures	48,98,361.00
		Repairs & Maintenance	47,52,877.00	Books	3,58,992.00
		Finance Costs	1,552.00	Vehicle	2,29,954.00
		Depreciation	50,73,335.00		
		Other Expenses	-		
Total	1506,59,832.06	Total	680,53,928.00	Total	629,21,869.00
		Capital Expenditure Total	629,21,869.00		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
		To Surplus (Excess of income over Expenditure)	196,84,035.06		
Grand Total	1506,59,832.06	Grand Total	1506,59,832.06		

Alumni Association - Events

Felicitation

Dr. Anil Sahasrabudhe, BVB alumnus from 1980 Mechanical and a Gold Medalist, has been felicitated BVBCET by Dr.Ashok Shettar, Shri Shankaranna Munavalli and Prof. Prakash G. Tewari on 21st May, 2016 for having assumed office as the Chairman of AICTE, New Delhi.. Shri.M.K. Patil and Prof.T. Veeramahantesh Swamy also shared the dais from BVB Alumni Association.





Annual General Body meeting

Annual General Body meeting for the year 2015-16 was held on the 24th December, 2016, wherein Nurture Merit @ BVBCET were given the financial assistance to the tune of Rs.5.2 lakhs for 26 students for their hostel needs. Incubation Centre along with Alumni office construction work has been in progress, where nearly Rs. 92 lakhs has been invested by BVB Alumni Association. Alumni after the AGM visited the construction of Incubation Centre on campus.





Get-together

BVB-Pune Alumni Team have arranged a family get-together on 26th January, 2016 at Dephe Wada, near Pune. Active participation from Mr.Dileep Miskin, Mr.Gururaj Joshi and Smt.Chetana Rao made this event possible.





KLE Tech Executive Leadership Team



Dr. Ashok Shettar Vice Chancellor



Prof. B. L. Desai Registrar



Dr. P. G. Tewari Dean- Academics



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



Dr. Uma Mudenagudi Dean- Research & Development



Prof Gopal Joshi Dean, Curriculum Innovation & programme assessment



Prof. S. B. Kurubar Dean- Examinations



Dr. Anil Nandi Controller of Examinations



Dr. Sanjay Kotabagi Dean- Student Welfare

Heads of Schools / Departments



Dr. B. B. Kotturshettar Mechanical



Dr. Nalini Iyer Electrical & Electronics



Dr. Meena M Computer Science



Dr. S. S. Quadri Civil



Dr. A. B. Raju Electrical & Electronics



Prof. A. C. Giriyapur Automation & Robotics



Prof Uday Muddapur Biotechnology



Prof Gururaj Joshi Architecture



Prof P R Patil Master of Computer Applications



Prof S V Patil Master of Business Administration



Prof Sanjay Kotabagi Humanity



Prof T V Swamy First Year

Center Heads



Prof. Nitin Kulkarni Director, KLE 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

Campus Snapshots



















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