Executive Summary

1. Introduction:

Visvesvaraya Technological University (VTU) named after Bharat Ratna Sir M. Visvesvaraya was established on 1st April 1998, as per the VTU Act 1994 of the Government of Karnataka. This University is established to promote planned and sustainable development of technical education.

Visvesvaraya Technological University has its Head Office located in Belagavi in the state of Karnataka. Reckoning the fact that University is a seat of confluence of knowledge and as a technological University, Visvesvaraya Technological University always strives to excel in academics and without restricting itself only to curricular activities, emphasizes the need for the overall growth of knowledge among the student and academic fraternity and hence its campus in Belagavi is aptly named as **"Jnana Sangama".**

The University has jurisdiction over the whole state of Karnataka. For administrative convenience University has four Regional Offices established at Bengaluru, Mysuru, Kalaburgi and Belagavi. The "Jnana Sangama"- campus is a 120 acres of tranquil ambience with modernistic architectural elegance making a quite statement of class and quality in the cubical shaped buildings that carry the essence of technological advancement in their futuristic designs.

Academic Profile

VTU is one of the prestigious and largest technological Universities in India having affiliation of **215** Engineering colleges , **18** Autonomous Colleges and **1** Constituent College. VTU is imparting technical education to more than 4 lakhs students under its **30** Undergraduate & **79** Postgraduate Programs. Offering Doctoral programs in **125** departments in various affiliated Colleges which have been recognized as research centers. Around 9000 Research Scholars are pursuing Doctoral and M. Sc. (Engg.) programmes. Every year, VTU is conferring Under Graduate degrees to over 60,000 Engineering students, Post-Graduate degrees to over 25,000 students and also awarding Ph. D./M. Sc. (Engg.) degrees to over 200 students. VTU is in the forefront to transform itself from a teaching centric University into a teaching, learning, research and knowledge centric University.

VISION

'To become an outstanding Technological University at the cutting edge of Science and Technology that produces world class Knowledge-delivery, Research, Extension and Leadership in Technology innovation for Industry and Society'.

MISSION

'To plan the development of technical education, to establish value-based and need-based education and training in engineering and technology, with a view to generate qualified and competent manpower, responsive to technological and societal needs.'

Significant Milestones of VTU

- During short span of time, University has achieved its basic objectives such as bringing all engineering colleges under single umbrella and introduced uniform curriculum for engineering education throughout the state of Karnataka.
- Established Regional Centers at Bengaluru, Belagavi, Kalaburagi and Mysuru for administrative convenience with excellent infrastructure facilities.
- To serve all the regions of Karnataka, VTU has established full-fledged Centers for Post Graduate Studies at Muddenahalli, Belagavi, Kalaburagi and Mysuru.
- Introduced industry driven curriculum to both UG and PG Programme in consultation with top industrialists and academicians. The University has also entered into MoU's with several international institutions and industrial organizations for the purpose of R&D, curriculum development and to set up state-of-art labs and training centers under VTU.
- University has instituted a "Research Grants Scheme" to harness and nurture the research talents available in its Affiliated Institutions and also instituted "Innovation Grants Scheme" to encourage Innovative Projects carried out by faculty and students.
- Establishment of Centers for Excellence.
- Introduced online process of Affiliation System to make the process of affiliation easier for all the stakeholders.
- Entered into a Memorandum of Understanding with Canadian Universities such as, University of Toronto, Ryerson University, Concordia University, Carleton University, University of Ottawa, University of Alberta and University of British Columbia of

Canada to establish the Center of excellence in the area of Nanotechnology in VTU Center for PG Studies at Muddenahalli.

- VTU has collaborated with many National and International, Governmental and Non-Governmental Agencies to bring the best of the Industry skills to the class rooms.

Centers of Excellence:

VTU has established various centers of excellence at Belagavi, Mysuru & Muddenhalli

1. Digital Farming Centre(VTU,Belagavi):

VTU And Jain irrigation Systems Ltd(JISL) have collaboration to promote Digital farming i.e. advance agricultural technology to uplift rural community. These include Research, development, Training and extension activities. Main components of digital farming include:

- Advanced micro irrigation system: live demo has been set up with regard to water saving technologies such as drip irrigation and sprinkler irrigation system
- Automation system: An integrated automation solution created to fulfill precise agriculture and irrigation management requirements.
- Cultivation of paddy with drip irrigation(First time in Karnataka)

2.Centre of excellence in Aerospace and Defence, VTU Regional Office, Bengaluru:

- It is an initiative of Government of Karnataka for skill Enhancement
- Imparts Skill Enhancement, Domain Knowledge, R&D Projects to industries, Start-Up & Institution on Aerospace and defense & Development.
- Hands-on Experience on 3D Experience platform of Dassault system and Theory by industry Experts, thus providing Industry –Ready Manpower.

3.Biofuel centre, VTU Belagavi

- Biodiesel Center established in the year 2012 support B.E, M.Tech, MBA & Ph.D students for doing their projects and R& D works.
- Biodiesel produced in VTU Centre is supplied to by the vehicles of VTU ,Govt. Offices and Farmers.
- Farmers of Nearby villagers use Deoiled cake as Biofertilizer for their crops.

- Around 358 Biofuel programmes (for Gram Panchayat, Taluka Panchayat, Zilla Panchayat members, Panchayat Development Officers, NGOs & college students) and 18 plantation programmes have been conducted.
- 980 Biofuel trees are present in VTU campus, Belagavi.

4.VTU-Bosch Rexroth centre of competence in Automation Technology VTU Regional Office ,Mysuru.

- Provides an insight in the field of " industrial Hydraulics, Pneumatics, PLCs Sensorics, Mechatronics and Robotics"
- Intensive training and fully hands on experience
- Helps participants to develop practical skill.
- Certificate is given upon successful completion of training and clearing a post-test.

5. Advanced Labs at VTU-National Academy for Skill Development Dandeli(VTU-NASD)

- Approved training centre under chief Minister's Kaushalya Karnataka Yojana (CMKKY) for current trades-CNC Operations and Programming, Automotive Painting and data Entry operation.
- Industry standard learning syllabus and training under supervision of industrial trainers and Completely Hands –on learning with cozy learning centre.
- Multi trade skill development centre with Placement Assistance.
- VTU-NASD offers three types of courses:
  - ✓ Months certification with placement assistance course.
  - ✓ Internship/in-plant training course.
  - ✓ Short term training course (2 to 3 days).

6. Water Technology Center VTU, Belagavi

- Micro irrigation material testing facility is available with well-equipped laboratory with all the sophisticated equipments like tensile testing machine, hydraulic pressure test equipment, carbon black content tester, ESCR tester, electronic balance, microscope and melt flow index tester required for testing of irrigation laterals, emitters, emitting pipes and micro tubes as per applicable BIS specifications.

7.VTU Data centre ,Belagavi

The Visvesvaraya data centre is the nerve centre of online services of VTU. All the IT-enabled services developed in house are hosted in this centre. It is a state of the art data centre built using cutting edge technology components .

- Redundant UTM device with support to multiple links and load balancing, supporting DNS, VPN, etc
- Redundant Layer 3 Core switch supporting fiber optic backbone with 10 GBPS support
- Wireless controller for centrally managed WIFI network.
- 27 High end Blade servers,22 Rack Mount Servers
- Network Attached Storage with storage up to 160 TB
- 3 High speed Internet leased connections supporting up to 1 GBPS bandwidth

8. Visvesvaraya Centre for Nano Science & Technology(VCNST) VTU,Muddenhalli

- The Visvesvaraya centre for Nano Science & Technology is first centre of excellence established by VTU at Muddenhalli, Chikkaballapura campus, which was inaugurated by Bharatha Ratna Prof.C.N.R Rao in the year 2016
- The centre has state-of-Art facility for Reaserch and Development with the Vision of applying Nanotechnology for sustainable society.
- VCNST is having International Collaboration with countries like Japan, Australia, Canada, USA, China, Singapore, Europe
- Centre is Focused on developing different nanostructure materials/devices to address the problems in the area of energy, Health and Environment.

9.Electronics Design Laboratory VTU, Belagavi

The Laboratory is equipped with Cadence, Synopsys, Xilinx Vivado and MATLAB Software along with

- NEXYS 4 ARTIX-7 FPGA trainer Board
- ZED Board
- ARM/FPGA SOC Developmnet Board
- ZYNQ Ultra scale FPGA Development Board

The Research applications include:

- Video Processing
- Reconfigurable Computing
- Smart Vision
- Image manipulation
- Human Machine interface

- Interactive Display etc.

10. Advanced Machining Lab VTU, Belagavi

The Design and development lab consists of

- Rapid prototyping Machines
- ANSYS structural analysis software

➢ Rapid Prototyping machines are employed to create functional parts for various application in fields like medical, textile, electrical applications etc by extruding and depositing thermoplastic materials in layers.

➢ ANSYS software is used to solve is used to solve complex structural engineering problems and make better, faster design decision. IT is used in various industry verticals like Aerospace, Automotive, Medicine, Industrial equipment, Consumer goods.

11. Shri S.G.Balenkundri central Library and Information centre VTU, Belagavi

- The SGB library and information center supports teaching & learning, research and innovations.
- The Library offers a wide range of e-Resources through VTU Consortium, which has extended 24 X 7 services via remote access facilities to all its stakeholders.

12. Electronics Design Laboratory VTU, Belagavi

- In Today's era of manufacturing ,use of CAD/CAM tools along with modern machine tools plays a vital role in manufacturing. The CNC machining in manufacturing process uses a pre-programmed computer software to control, automate and monitor its movement of a machine having movements in different axis.
- The use of CNC in manufacturing can benefit by reducing number of operators and giving improved accuracy of parts produced with less human errors and maintenance. The use of advanced CAD/CAM tools with CNC machining can produce any complex shape, which can be modeled and programmed in a computer by reducing its production time and improving parts accuracy.

Academic Accomplishments of VTU in the Recent Past

- University has been included in the list of Universities under Section 12B ,2(f)of the UGC Act 1956.

- VTU has been recognized as one amongst the three Affiliating Technological Universities in the country under TEQIP1.3 to receive World Bank assistance.
- VTU is the first university in the country to implement Model Curriculum announced by AICTE in 2019.
- Established VTU National Skill Development Center and Center for Post Graduate Studies at Talakal in Koppal Dist.
- University has entered into Memorandum of Understanding (MoU) with Department of Mines and Geology, Govt. of Karnataka. As per the MoU, all the VTU affiliated engineering colleges having Civil Engineering Departments have been authorized to undertake testing of M-Sand samples produced in the state of Karnataka.
- University has entered into Memorandum of Agreement (MoA) with Karnataka Biotechnology and Information Technology Services (KBITS), Govt. of Karnataka and Dassault Systems India Pvt. Ltd., New Delhi which resulted in establishment of Center of Excellence in Aerospace and Defence at Muddenahalli. The Center is aimed at to improve the employability of engineers and working professionals in Aerospace and Defence industry through industry focused skill enhancement programme.
- Established VTU-Human Resource Development Center at Muddenahalli to conduct training programme for newly appointed faculty members of VTU affiliated colleges.
- Conducted workshops on subjects of importance like Intellectual Property Rights (IPRs) and Research Methodologies. So far 30 workshops have been conducted and benefitted about 4000 faculty members.
- Installed A-VIEW Platform which is internet based virtual knowledge sharing is being installed in VTU affiliated colleges.
- Started M. Tech. in Structural Engineering in VTU Center for PG Studies at Belagavi in 2017.
- Started M. Tech. in Highway Technology in VTU Center for PG Studies at Kalaburagi in 2017.
- With a mission to increase employability of engineering students, University has introduced internship programs for both UG and PG students.
- Introduced industry driven curriculum to both UG and PG Courses

- In order to promote Research Culture and to encourage innovative projects among the faculty and students, VTU has instituted
    - Research Grants Scheme
    - Research Fellowship Scheme
    - Research and Projects Grants Scheme
- Introduced online process of Affiliation System
- University conducted a Summit of the Presidents, Chairmen and Members of the management of the various affiliated and autonomous colleges of VTU for the first time. The objective of the Summit was to promote synergetic co-operation among the colleges to establish high-tech research programmes, inter-disciplinary programmes and knowledge infrastructure, which will bring internationally-acclaimed quality brand image for VTU and its colleges.
- University has developed in-house software to carry out Digital Evaluation process.

Sports Activities

- VTU has successfully organized All India Inter-University Cross Country (Men & Women) Championship allotted by Association of Indian Universities for the year 2017-18, wherein about 150 Universities form all over the county participated.
- Organized a mega event, 20th Inter Collegiate Athletic Meet (Men & Women) at Visvesvaraya Technological University, Jnana Sangama, Campus, Belagavi
- Annual Sports meet.

VTU Post Graduate Centers:

Visvesvaraya Technological University Conducts many Post Graduate programmes on its campus viz as MBA, MCA and M.Tech. There are four Post Graduation centers of VTU across Karnataka. These are.

1. Post Graduate Center Belagavi
2. Post Graduate Center Kalaburgi.
3. Post Graduate Center Muddenahalli
4. Post Graduate Center Mysuru.

1. Post Graduate Center Belagavi:

The Visvesvaraya Technological University, Belagavi named after great Engineer, Administrator, Entrepreneur and a Statesman Sir. M. Visvesvaraya has started its post

graduate courses in its 125 acres sprawling campus (situated on Belgaum- Goa road) with state of the art infrastructure for imparting quality education through its well structured administrative and academic support for overall development of students personality. The Centre for PG Studies has five full time post graduate programmes in M.Tech, MBA and MCA. Under M.Tech there are M.Tech in Computer Network Engineering (CNE), M.Tech in VLSI Design and Embedded systems, M.Tech in Product Design and Manufacturing (PDM), M.Tech in Water and Land Management, M.Tech in computer Science and Engineering, M. Tech in Structural Engineering.

2. **Post Graduate Center Kalaburgi.**

   The Kalaburgi PG Center is established in state of the art equipped technology in Kalaburgi with 120 acres of campus. Around ten PG programmes run on the campus. They are M.Tech in Thermal Power Engineering, M.Tech in Computer Science Engineering, M.Tech in VLSI Design and Embedded Systems, M.Tech in Machine Design. M.Tech in Construction Technology, M.Tech in Digital Electronics and communication system, M.Tech in Highway Technology, MBA and MCA

3. **Post Graduate Center Muddenahalli.**

   A new PG campus is established in Muddenahalli, a birth place of Bharat Ratna Sir. M. Visvesvaraya. The campus is around 400 acres surrounded by natural beauty. The campus is well developed with advanced technology and facilities. The programmes run on the campus are, M.Tech in Nano Technology, M.Tech in Aerospace Propulsion Technology, M.Tech in Computer Aided Engineering, M.Tech in Digital Electronics and Communication System, M.Tech in Artificial intelligence and Machine Learning. MBA and MCA

4. **Post Graduate Center Mysuru:**

   The VTU has PG Campus in the heart of the city of Mysuru ,a city of rich heritage. The campus is around 160 acres with advanced learning facilities. The campus is enriched with e-learning center with 7 PG programmes, such as M.Tech in Structural Engineering, M.Tech in Digital Electronics and Communication System, M.Tech in Thermal Power Engineering, M.Tech in Computer Science and Engineering, M.Tech in Industrial Automation Engineering MBA and MCA.

Departmental Concept in PG Programmes:

The university offers around 79 PG programmes. These PG programmes are offered in affiliated colleges and on VTU PG centres. For PG programmes run on VTU four PG campuses such as Belagavi, Kalaburgi, Muddenahalli and Mysuru are clubbed under 7 departments. These departments are headed by Chairpersons who are the senior faculty members of respective departments. These chairpersons tenure is for two years. It is on rotation basis among professors and Associate professors based on seniority basis. Each Department is governed by a Department Council. The Department council consists of all the Professors and Associate Professors of the Department working in all four PG centers of VTU and also 2 Assistant Professors as members selected on seniority. The Departmental Council is chaired by the chairperson of the Department. The Council meets at least twice in a semester and decides the working model for the academic matters.

The seven Departments of PG Centers are.

1. Department of Civil Engineering
2. Department of Mechanical Engineering
3. Department of Electronics and Communication Engineering
4. Department of Computer Science and Engineering
5. Department of Applied Sciences
6. Department of Aerospace Engineering.
7. Department of Management studies.

The specific cognate programmes are clubbed under the departments.

1) The Department of Civil Engineering consists of

a. M.Tech in Water and Land Management.

b. M.Tech in Water Resource Management.

c. M.Tech in Construction Technology.

d. M.Tech in Structural Engineering.

e. M.Tech in Highway Technology

2) The Department of Mechanical Engineering comprises of

a. M.Tech in Product Design and Manufacturing

b. M.Tech in Machine Design

c. M.Tech in Thermal Power Engineering

d. M.Tech in Industrial Automation Engineering.

e. M.Tech in Computer Aided Engineering.

3) Department of Electronics and Communication Engineering includes

a. M.Tech in VLSI design and embedded system

b. M.Tech in Digital Electronics and Communication Systems

4) Department of Computer Science and Engineering has

a. M.Tech in Computer Network Engineering.

b. M.Tech in Computer Science and Engineering.

c. Master of Computer Applications .

5) Department of Applied Sciences consists of M.Tech in Nano Technology.

6) Department of Aerospace Engineering consist of M.Tech in Aerospace Propulsion Technology.

7) Department of Management studies consists of MBA and infrastructure of MBA programmes

All the departments are having research programmes(Ph.D) in their respective discipline.

2.Criteria wise summary:

1. Curricular Aspects (Criteria 1)

1.1 Curricular Design & Development

- Well-defined procedure to design curriculum
- Adopted CBCS – Choice based Credit System across all UG and PG programmes.
- Syllabus revision is carried out for UG programmes every 4 years and PG programmes every 2 years
- All Academic programs are planned to give extensive knowledge to foster creativity, innovation and research attitude
- Curriculum focuses on programme objectives and programme outcomes which are made available to the students through various modes
- Course curriculum relevant to local, national, Regional and Global development needs.
- Multi-disciplining Approach.
- Knowledge Partners MOUs with Industries, Academic, State/Central Govt Agencies.

1.2 Academic Flexibility

- Open/Professional Electives
- Mini Projects
- Field Studies
- Internship
- Seminars
- Lateral Entry for Diploma holders for Degree courses & MCA

1.3 Curriculum Enrichment

- Core courses for improving employability through communication, analytical and other skills – IT and logical reasoning skills.
- Compulsory course on Indian Constitution, Professional Ethics and Cyber laws at Degree level
- Courses on Water and Land Management, Silk Technology, Nanotechnology, Bio-Technology, Aerospace and Textile Technology.
- Women Cell to create awareness about gender equality and legal rights for women
- Value education through NSS, Red cross & Yoga
- E-Learning centre at Mysuru.
- VTU Consortium to promote cooperative initiative to provide e-books to affiliated colleges at affordable costs.

1.4 Feedback System

- Feedback from students, faculty, Alumni and experts is obtained from the current year in the structured form online and forwarded to Academic section for analysis and use for next revision in 2020
- Open house session at departmental level
- Feedback from visiting Dignitaries/experts.
- The system would help in improving the quality of curriculum Design and Implementation in tune with changing needs of the society

2 Teaching-Learning and Evaluation(Criteria 2)

2.1 Student Enrollment and profile

- Online transparent Admission Process to SC/ST/OBC students
- Hostel Fee reimbursement & Laptops for SC/St students by the University
- Students across the state

2.2 Catering to student Diversity

- Slow and advanced learners are identified on the basis of their performance in entrance examination internal tests and in mentor groups.
- Foundation courses/Induction programme is arranged at departmental level.
- Interaction between Advanced and slow learners
- Course in Kannada(regional language) and also in Indian Constitution, Professional Ethics and Cyber Laws.

2.3 Teaching-Learning Process

- ICT based learning.
- LCD Projectors, Smart boards, PPT presentations, experiential learning mini projects & seminars
- Teaching methodology is a combination of Lecturers, group Discussion Case studies, field projects Internship with Industries & presentations by students.

2.4 Teacher Profile and Quality

- Percentage Teaching positions filled
- Faculty members approved guides
- Ph.D Degree holders
- Teacher-Student ratio is 4:1
- Percentage Awards and fellowships received by teachers

2.5 Evaluation Process and Reforms

- Evaluation process completely digitalized
- Fully automated through in-house software
- Question papers delivered on-line 15-30 minutes before the start of examinations
- Centralized Digital Evaluation System
- Malpractices and subjectivity eliminated.
- Results declared within 30 days from the last date of closure of the semester.
- Issue of admit cards and other related documents on-line
- IA marks uploaded in database with EMS software.

2.6 Grievances cell

- Student Grievances regarding examination and evaluation redressed within stipulated time.

2.7 Student Performance & Learning Outcomes

- Student performance and learning outcomes are measured through POs and Cos

- Placement support provided by Placement Committee representing all four regions
- 90% students complete their degree within normal duration

3. **Research, Innovation and Extension (criteria 3)**

3.1 **The University has**

- 168 research centers in four of its PG campuses and affiliated colleges
- Laboratory facilities are provided to Research scholars
- Plagiarism check is done for projects and Ph.D thesis before submission
- 9000 Research scholars working at different centers
- Research papers, undertaking projects conducting workshops, attending seminars workshops etc
- Grant from TEQIP 3 –World Bank Scheme

3.2 **Resource Mobilization for Research**

- Research is encouraged in the university and affiliated colleges
- Funding/Financial support provided for Research

3.3 **Innovation Eco-system**

- Established Bio- fuel centre which provides training to formers and Bio-fuel produced is sold to Govt vehicles
- E-Learning centre to share knowledge with industry at Mysuru
- Water conservation, Drip Irrigation and other Water management Programmes under Unnat Bharat Abhiyana
- Solar project usage of LED bulbs
- Go Green campus

3.4 **Research Publications & Awards**

- 8511 Research papers published
- Publications in Scopus/UGC journals
- Awards/fellowships received by faculty
- University Research journal is published quarterly
- Prasaranga Unit has published technical books in Kannada to transfer knowledge to common man

3.5 **Consultancy & Extension Activities**

- Consultancy policy is designed & implemented
- Six neighboring villages adopted
- 30+30 people from surrounding villages provided employment on main campus
- Bore well constructed at Santibastwad village situated near main campus at Belagavi
- Skill Development Training to train youth at Dandeli in Uttar Kannada District

4. Infrastructure & Learning Resources (Criteria 4)

- 64,759 Sq ft build up area at Belagavi main campus with 33 classrooms.
- 60,307 Sq ft build up area at VIAT Muddenhalli campus with 16 classrooms .

- 18,098.57Sq ft build up area at Kalaburgi campus with 20 classrooms.
- 44,160 Sq ft build up area at Mysuru campus with 17 classrooms.
- 9831 Sq ft build up area at Bangalore regional campus.
- Seminar halls, 01 Dr A P J Abdul Kalam Auditorium, 25 ICT enabled classrooms
- Amphitheater at Belagavi campus
- Smartboards, LCD projectors in majority of classrooms
- Hostels for Boy's and 2 hostel for Girl's – separate SC/ST Hostel under construction
- 1.Primary health Centre at Belagavi Campus.
- State of the Art equipment & Laboratories
- 683 no. of Computers are available in various centres.
- Entire campus wi fi enabled
- Bank, Post Office and canteen facilities
- Guest house with modern facilities
- 30 Vehicles and 3 electronic vehicles for internal transport on campus

4.1. **Library as a Learning Resource**

- Separate Library Building at each VTU PG centres.
- 987Sq. ft area covered for Belagavi Library,8318 Sq.ft area covered for VIAT Muddenhalli ,1308.80 Sq.ft area covered at Kalaburgi and 119.92 Sq.ft area covered at Mysuru Library Centre
- Library is partially automated
- Library has books, journals, e-journals, Ph.D thesis and Project Reports at Belagavi campus
- Digital Resource available
- Annual expenditure in 2018 for acquisition on library resources is Rs38,58,65,609 .

5. **Students support & Progression(Criteria 5)**

- Annually on an average of 60,000 students are awarded Bachelor of Engineering Degree ,B.Arch ,B.Tech .25,000 students Post graduate degree and over 200 students Ph.D/M Sc Engg) degree
- SC/ST and all categories of reservation as per Govt rules are admitted and given scholarships and other benefits. Free laptops are distributed to SC/ST students by the University.
- Women's cell, Placement Committee, Entrepreneurship Development Cell, SC/St and OBC Cell Anti-ragging cell are all operational.
- Physical Education Instructor and coach for sports.
- 90% students get through program during stipulated time.
- Students are encouraged to take up competitive examinations NET/SET/GATE/TOFFEL
- Students participate in various academic, co-curricular and extra-curricular activities at regional, National & International level.

5.1 **Alumni Engagement**

- Alumni Association is formed and chapters at other campus at Kalaburgi, Mysuru and Bengaluru (Muddenhalli) have been established.

- Association is for PG programmers only
- More than 800 students have registered
- Alumni support the activities by organizing Guest Lecturers, Interactive sessions and placement of the students
- Alumni Feedback on overall functioning of the University is obtained

6. Governance, Leadership & Management (Criteria 6)

- Visionary, Dynamic & supportive leadership
- Autonomy and Accountability
- Transparency
- Internal & External Audit of Finance
- Support for Research & Innovation
- Balanced Development strategy
- Meetings of statutory bodies are regularly conducted
- Performance appraisal of both Teaching & Non-Teaching staff done
- IQAC is formed
- AAA Audit process initiated
- Green campus maintenance
- Centralized Purchase, e-tender
- Online Purchase Order
- Separate Purchase and Stores Department
- Separate Engineering Section for Development & maintenance of infrastructure/physical facilities

7 **Institutional Values &Best Practices(Criteria 7)**

- Human Dignity
- Humility
- Gender Equity
- Energy conservation
- Community Engagement
- Rainwater harvesting

7.1. **Best Practices**

- Go Green initiative
- Completely Digitalized Examination System
- Bio-fuel centre
- VTU consortium for knowledge showing.
- Skill Development Centre for youth at Dandeli

SHARING, CARING AND GROWING IS THE MAXIM OF THE UNIVERSITY

3. SWOC Analysis of VTU

Strengths:	**Weakness:**
1.One of the largest technological universities in the country. 2.All Engineering colleges functioning in Karnataka state under single umbrella. 3. University named after Bharat Ratna Sir. M.Visvesvaraya . 4. Uniform curriculum for technical and management education in affiliated institution. 5.World-class knowledge delivery, Research & extension. 6. Online process of affiliation. 7. MoU's with Foreign University. 8. Collaboration with national, international, Government & non- Government Agencies. 9. Centres of excellence in Bio-Fuel, Nano Technology and skill Development. 10. Two chairs Institute: 1)Parisar Chair 2) State bank Chair 11. Consortium for e-resources. 12. e-learning centre at Mysuru. 13. Adopted Choice Based Credit System. 14. Fully Digitalized Centralized admission system. 15. Innovative digital Evaluation system with On-line delivery of question paper on the day of Examination.	1. State Regulation 2. Changing admission policies/Govt. Policies 3. Absence of Foreign Faculty. 4. Attitudinal problem.

16. VTU graduate most preferred in getting H-1 B VISA of USA. 17. 6th Rank amongst top Universities with 4 stars in Karnataka./ NIRF 2019 got 147th rank. 18. UGC has accorded 2(f) and 12 B status. 19. Offers UG, PG, Ph.D programmes in Engineering, Applied science Technology and Management. 20. World class infrastructure with green campus. 21.Staff quarters on the campus/Hostel/Auditorium /Amp Theatre also on campus. 22. Well-equipped labs for engineering disciplines. 23. Library with rich collection of books, National & International Journals. It is using Integrated Management system softwar comprising Acquisition, Categories, Circulation and Serial control & OPAC modules. 24. Independent cells to enhance employability & women empowerment. (a) Women's cell (b) SC/ST Cell (c) Entrepreneurship development cell (d)Placement cell (e)Anti ragging committee (f) Yoga and meditation	

25. NSS/Red-Cross /Sports/Cultural activities Dept to inculcate social responsibility Attitude among students. 26. Yoga /Meditation centre. 27. Health Centre 28. Deploying new education technology-EDUSAT,TV etc. 29. Hostel facility both Boys and Girl on the campus with all facilities like Gym, Yoga, Mess, Health centre, Bank (ATM),Post office etc. 30. Transport facility for VTU staff.	
Opportunities: 1. Improving Teaching processes. 2. Establishing sectoral linkages for application of technology. 3. New courses relevant to changing time. 4. Enhancing quality of faculty. 5. Scope for Innovation & Creativity. 6.Evolving strong Research culture/Encouraging work to get patent.	**Challenges:** 1. Facing Global Competition 2. Coping with changing Technology. 3. Meeting societal expectations. 4. Contributing through Technical Education to Socio-Eco Development. 5. Encourage Multi-disciplinary Research. 6. Establishing Knowledge centric brand for university. 7. Strengthen Autonomous colleges.

Future Plan

VTU Belagavi, as a modern research university has planned a diverse set of activities for the next five years, which include:

- Educating high quality manpower with the required skills and knowledge at both undergraduate and postgraduate levels.
- Generating new knowledge through fundamental research.
- A strong emphasis will be given to quality academic excellence
- To become a repository of knowledge and of experts.
- To establish Conference Organizing Support Cell.
- To implement international students and faculty exchange programmes.
- To enhance engagement with society and industry
- To become a source of new ideas and independent opinions through scholarship.
- To become partner with Skill India and Make in India projects of Government of India
- To develop a cleaner and greener campuses.
- To broaden educational areas by initiating the following:
    - To initiate new undergraduate/post-graduate programmes in emerging areas of engineering and technology.
    - Initiate Joint academic and research programmes in collaboration with national and international level research institutions.
    - To initiate major skill based curricular revision.
- To become a source of innovation leading to solution of local problems, development of new products, processes and formation of new businesses, leading to wealth and employment generation-to achieve this, it is planned to establish **Industrial Technology Research Institute**.
- To increase funding for research projects from Govt. of India and industry and establish Centers of Excellence.
- To establish Multi-disciplinary Research Centers in high potential areas and enable cluster faculty hiring.
- To make scientific and academic research on par with international standards.
- To increase internal revenue through masters level courses, executive programmes and

- Professional courses.
- To establish Skill Development and Training Centers in all districts of Karnataka state.
- To create an environment for life-long learning and freedom of thinking.
