

Dr. Indrajit Patel
PRINCIPAL



Estd.: 1948

Birla Vishvakarma Mahavidyalaya

BVM Engineering College

An Autonomous Institution
(Managed by Charutar Vidya Mandal)

BVM Strategic Plan

Executive Summary:

BVM is a premier institution of Charutar Vidyamandal founded in 1948 with a Motto: Work is Worship with More than 20000+ engineers Graduated acquiring Graduate & Post Graduate Engineering Degrees.

The infrastructure of the college is generously designed for Four year B.Tech. Degree programme & Two Year M.Tech. Degree Programme with an intake of 700+ students every year, in various branches. Since the establishment of BVM, India's population has grown considerably. The country's economic environment has changed, and industry has developed. There have been global changes as well, particularly in the new millennium, such as redefinition of political boundaries in Europe and Asia, an explosive growth in the use of the personal computer, outsourcing of service and manufacturing activities and the development of the Internet, BVM has initiated many collaborations with international universities and industries.

In 1979, BVM was called upon to establish an institute working entirely for research, development, training and extension work in the area of renewable sources of energy particular for rural application. The institute is currently spread over 18.96 acres with a Built up area: 35704.00 sq.m. A Multipurpose Hall with donation from L&T (with the help of CEO Er. Anil Nayak a BVMite) is also an addition to the services of alma mater. Currently BVM employs 200 teaching staff with more than 40% PhD Holders & 50 non-teaching staff. At present, the college is equipped with approx. 750 computers with good configuration like P4 and above.

The institute since 1948 has remained affiliated with Mumbai University, Gujarat University, Sardar Patel University, and Gujarat Technological University. Institute is currently holds Academic autonomous status from GTU & UGC.

Institute identifies the following broad targets:

- Become a leading technological Institute
- Earn the recognition among students and research scholars
- Become known globally for transformational technologies that impact lives of people
- Incubate successful start-ups creating innovative products
- Provide an invigorating work environment for faculty and staff, where merit and hard work are recognised and rewarded
- Be a model Institute campus in terms of sustainability, usage of energy and water and recycling of materials
- Be an institute that is sought for international collaborations leading to exchange of students and faculty and joint degree programmes
- Intensify the involvement of alumni in all aspects of the Institute's development

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Chairman's Forward:

It is a matter of great privilege and pride that BVM Engineering College has emerged as a leader in the field of Technical and Professional education. The BVM Board of Management defines the major policies and guidelines which govern the activities and future growth of the college, and also monitors closely the functioning of the college. Our guiding principle is constant change, motivation and up gradation, creating state-of-the-art knowledge infrastructure for our students, instilling in them the ability to learn so that they can face any challenge anywhere in the world. The aim of BVM has always been to provide quality and affordable education to all sections of the society. It has been our Endeavour to develop institutes imbued with modern infrastructure and technological support to facilitate the teaching- learning process.

Our vision is based on hard work, open communication, a strong emphasis on teamwork and a high level of responsibility. This visionary culture allows and emphasizes our wards not only to adopt the present day challenges but also individual responsibilities to the society and our nation at large. We have a strong Institute - Industry interaction, faculty development, increased use of web based learning for imparting world class quality technical education along with career counselling and personality development programmes. Strategic Plan 2020-2023 has been thought through well, and keeping in mind the Institute's robust ecosystem and dedicated team, I am confident that BVM will make rapid progress towards achieving its vision.




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Principal's Forward:

Technical Education is the backbone of every nation and is the stepping stone for a country to move into the niche of a developed nation. Charutar Vidya Mandal (CVM) is one of India's leading NGO and non-profitable charitable organizations that has been contributing in the mission of transforming rural India into a developed nation. BVM Engineering College is one of among reputed technical institutes imparting finest quality education. The evolution of the institute over the past seven decades has witnessed a strong blend of state-of-the-art infrastructure and intricately intertwined human resource committed to provide professional education with thrust on creativity and innovation. The motivating environment in BVM for knowledge assimilation, generation and dissemination with a sense of social responsibility, human values and concern for the environment has carved a niche for itself among the best technical institutes. In BVM, it is believed and practiced that excellence is a continuous process and in pursuit of which the institute has made deep forays into contributing world renowned technocrats, successful entrepreneurs, competent leaders, innovative scientists and researchers. BVM has a very eco-friendly campus and is equipped with state-of-art infrastructure. We have well equipped labs, workshops and libraries to help students in attaining the highest standards in academics, research and professional skills. The main focus of the Institution is to empower students with sound knowledge, wisdom, experience and training both at the academic level of Engineering and in the highly competitive global industrial market. The Strategic Plan 2020-2023 document will serve the purpose of aligning all the stakeholders of the Institute towards a set of common goals so that the total of our efforts and achievements are much more than our individual contributions. I trust that BVM will become the pride of our nation and that each one of us will enjoy the satisfaction that comes from doing our part to enable our Institute to achieve its rightful place among the best in India and the world.




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Section 1: Preamble

- 1 Historical Back Ground:** Birla Vishvakarma Mahavidyalaya (BVM) Engineering College, an autonomous institution managed by Charutar Vidhya Mandal, was established in 1948 with generous donations from Birla Education Trust on the behest of Sardar Vallabhbhai Patel, the first home minister of Independent India. BVM was inaugurated by Lord Mountbatten, the governor general of India on 14th June 1948, and rose to prominence under the stewardship of Prof. Junarkar and Prof. K.M. Dholakia. BVM offers B.Tech. Degrees for eight different branches- Mechanical, Electrical, Civil, Computer, IT, Electronics, Electronics & communication and Production Engineering & eight M.Tech. Degrees for specialized courses in Civil, Electrical, Mechanical and computer branches. It is one of the few colleges in India that has adopted the progressive credit system of relative grading in India. BVM, till now, has awarded degrees to over 20,000+ students. The curriculum of each course is designed in consultation with relevant industry experts and are subject to rigorous analysis and regular up gradation.
- 2 Institute of Excellence:** BVM has taken many strides to become a centre of excellence in technical education. The award of World Bank assisted projects TEQIP-II and III, NBA, as well as academic autonomy by UGC are few noteworthy milestones crossed by BVM in its perpetual journey. Awarded TEQIP-II in 2014, TEQIP-III in 2017, and UGC autonomy in 2015. Moreover, BVM is the only engineering college of Gujarat state to get the UGC Autonomy. All stakeholders of BVM work diligently and relentlessly to uphold its legacy, in letter and spirit.
- 3 Changing Environment:** The growth of BVM has been in response to the national and global changes taking place over the decades since the Institute was established. The changing environment of globalization and the rapid change in information technology has motivated BVM to adopt new parameters and technology for the development of society. Having reached levels of achievement that have been noticed nationally & globally, BVM now aspires for higher things.
- 4 Strategic Development Initiatives:** Several workshops and discussions were held with the different stakeholders to develop a knowledge base and a consensus around key issues. Various areas of strategic importance to the Institute were identified for intensive study through internal task forces. Reports on these areas were widely discussed and debated to build a consensus. A strategic plan, outlining recommendations and action plans for implementing the strategy, was drawn up. Subsequently, as part of the planning cycle, the strategic plan has been reviewed and revised at regular intervals.
- 5 Strategic plan 2020-2023:** This Strategic Plan has been drawn up, through a process of consensus building. Even while this process was on, implementation of several elements of the plan has been taken up. As a result, it would be quite appropriate to say that the plan covers the period 2020– 2023, the targets of the Strategic Plan and the vision underlying the plan are presented in the following sections.



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Section 2: Vision

"Produce globally employable innovative engineers with core values"

The broad goals of Strategic Plan 2020–2023 are aligned with BVM's commitment to produce globally employable innovative engineers with core values, and the Plan is consequently focused on these core themes. The Strategic Plan enunciates BVM's objective of being recognised as a global leader in research and education. The Strategic Plan seeks to leverage the traditional strengths of BVM and to acquire or develop new strengths. The strategic plan envisions the development of infrastructure commensurate with the anticipated increases in research needs and in the numbers of the faculty and students.




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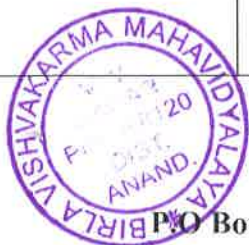
Section 3: Targets

Mission:

- Re-engineer curricula to meet global employment requirements.
- Promote innovative practices at all levels. Imbibe core values.
- Reform policies, systems and processes at all levels.
- Develop faculty and staff members to meet the challenges.

Research: To achieve goals related to raising the quantum of research output and improving its quality, BVM will adopt a multi-pronged strategy addressing the issues of enhancing the number of research scholars, the faculty strength and of augmenting resources.

Strategic goal	Strategy	objective	Responsibility	Timeline
❖ Quality research work, that is robust, ethical, stands up to scrutiny and adhere to principles of professionalism, transparency, accountability and auditability	<ul style="list-style-type: none">❖ Research design and methods, sampling, data collection strategy training of students, teachers❖ Training of research tools❖ Increase number of refereed journals publications❖ Increase amount of funding❖ Training for report writing❖ Producing quality reports, improve of report accessibility	<ul style="list-style-type: none">❖ Training workshops for faculty❖ Submit competitive proposals annually	All Departmental Head, Research Development committee & Faculties of all departments	Annual



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❖ Support research excellence and focus on areas of consultancy	❖ Develop short/long-term plan and improve management capacity, better utilize lab space and upgrade labs / facilities to meet both present and future needs. ❖ Encourage the formation of (inter-disciplinary) research groups and partnerships within and external to the department	❖ Provide adequate space for research programs and ensure labs are well maintained and equipped ❖ Enhance the research culture	All Departmental Head, Research Development committee & Faculties of all departments	Annual
❖ Support research excellence	❖ Establishment of Center of Excellence in emerging area.	❖ To provide solutions to various problems and issues of society and industry	All Departmental Head, Research Development committee & Faculties of all departments, Library committee	Annual




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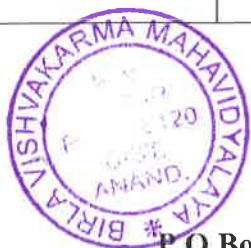


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Course Programs: BVM offers B.Tech. Degrees for eight different branches- Mechanical, Electrical, Civil, Computer, Information Technology, Electronics, Electronics & Communication and Production Engineering also eight M.Tech. Degrees for specialization in Environmental, transportation, infrastructure, structural, construction management, machine design, software & electrical. It is one of the few colleges in India that has adopted the progressive credit system of relative grading in India. BVM, till now, has awarded degrees to over 20,000+ students. The curriculum of each course is designed in consultation with relevant industry expert and are subject to rigorous analysis and regular up gradation.

The performance of a student in a course will be evaluated based on (i) continuous assessment of theory and tutorial/practical work and (ii) end semester theory and tutorial / practical examinations.

Strategic goal	Strategy	objective	Responsibility	Timeline
❖ Build and sustain nationally recognized program of relevance to industry needs	❖ Incorporate new courses of demand as per the technological needs ❖ Continuous evaluation of the effectiveness of each course content	❖ Identify and support courses of emerging distinction ❖ Maintain excellent teaching learning environment	Principal, Academics affairs committee & Credit System Committee, III Committee & All departmental Heads	Every Three Years
❖ Modernize course /curriculum as per the need of an hour.	❖ Promoting Continuing Education Programs ❖ Introduce value addition online /offline technical courses using NPTEL /MOOCS/SWAYAM.	❖ Upgrade institute with Modern engineering practice with Value Addition Courses as extra classes.	Principal, Academics affairs committee & Credit System Committee, III Committee & All departmental Heads	Every Three Years



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❖ Implementation of courses with recent trends	❖ Establishment of feedback mechanism by involving stakeholders ❖ Developing On-line Teaching Modules and introduce virtual lab environments and laboratories	❖ To incorporate the suggestion from BOS/ICC members to frame new courses ❖ To improve newly framed courses based on inputs from stakeholders	Principal, Academics affairs committee & Credit System Committee, III Committee & All departmental Heads	Every Three Years
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Sponsored Research and consultancy: BVM is known among the Engineering Colleges for its strong industry linkages. The Industrial Consultancy and Sponsored Research initiative was taken long back and has spearheaded the growth of sponsored research at BVM ever since. The overall strategy for developing sponsored research and industrial consulting activities at BVM during 2020–2023 is to vigorously identify new research projects of relevance to the society and of interest to industry and to build relationships.




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Strategic goal	Strategy	objective	Responsibility	Timeline
❖ Advance research and scholarly enterprise	<ul style="list-style-type: none"> ❖ To continue to seek new industrial research collaborations as well as collaborative opportunities within and outside of the institute in order to increase the research base. ❖ Identify, communicate, encourage and support application process for research funding 	<ul style="list-style-type: none"> ❖ Increase our research capacity ❖ Increase number of faculty holding national grants and diversify funding sources 	All departmental Heads, Faculty members & Research Development committee	Annual
❖ Improve research synergies with Industry	<ul style="list-style-type: none"> ❖ Research project submission to various funding submission ❖ Encourage students to take industry related projects 	<ul style="list-style-type: none"> ❖ Industry institute interaction for updated knowledge and research initiatives ❖ Initiate research culture in students 	All departmental Heads, Faculty members & Research Development committee	Annual
❖ Increase number of research project/ Center of Excellence/ Research center	<ul style="list-style-type: none"> ❖ Set up of research center in Concrete technology field. Identify and support the programs in the emerging areas 	<ul style="list-style-type: none"> ❖ Progressive Research and Scholarly Endeavor 	All departmental Heads, Faculty members & Research Development committee	Annual
❖ Enhance consultancy services in the Institute	<ul style="list-style-type: none"> ❖ Identify the areas for improving consultancy ❖ Interaction with industry and alumni for joint consultancy and research 	<ul style="list-style-type: none"> ❖ To open up new areas for consultancy ❖ To enhance Industry visits by faculty members. ❖ To invite Alumni for joint R&D and Consultancy 	All departmental Heads, Faculty members & Research Development committee	Annual




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Entrepreneurship Activities: For developing entrepreneurial attitude among the students, the initiatives, infrastructure, financial support, motivation and any policy regarding entrepreneurship activities are taken by all the departments.

Strategic goal	Strategy	objective	Responsibility	Timeline
❖ Expand engagement with partners	❖ Foster and support student innovators, entrepreneurs and their spinoff companies	❖ Promote innovation, technology transfer and commercialization of research as a key outcome. ❖ Incubate start-up companies, provide R&D mentoring, and promote campus incubation ❖ Recognize stakeholder involvement with our faculty.	Institute Industries Interaction committee & Faculty members	Annual
❖ Use small business approach	❖ Form small business committee in the institute.	❖ Training professors and staff in start-ups	Institute Industries Interaction committee & Faculty members	Annual
❖ motivation for entrepreneurs hip	❖ Arrange Workshop ❖ Motivational talk by entrepreneur	❖ Self-employability	Institute Industries Interaction committee & Faculty members	Annual
❖ The goal of a department should be to make students better informed about entrepreneurs hip as a career option	❖ One faculty one industry relation ❖ Faculty industrial visit ❖ Students industrial visit ❖ Panel discussions on relevant topics	❖ Introduce and familiarize students with Entrepreneurship as a career option.	Institute Industries Interaction committee & Faculty members	Annual



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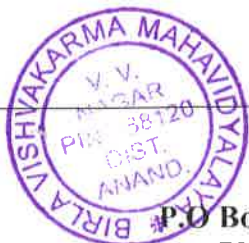


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❖ Entrepreneurship awareness and innovation	❖ Experience-sharing sessions by experienced entrepreneurs	❖ Student should be able to start their own firm	Institute Industries Interaction committee & Faculty members	Annual
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Human Resources: BVM recognises human resources as the most important among the assets needed to realise its Aspirations. This importance is particularly emphasised in the present context of steep growth. Student-teacher ratio is very important to improve the quality of the teaching-learning process. BVM will attract and retain high quality and diverse teaching & non-teaching staff.

Strategic goal	Strategy	objective	Responsibility	Timeline
❖ Retain high quality and diverse faculty.	<ul style="list-style-type: none"> ❖ Increase the number of faculty members. ❖ Provide professional development & training for faculties 	<ul style="list-style-type: none"> ❖ Increase faculty to student ratio ❖ To achieve Faculty Student ratio as per requirement of NBA, NAAC, NIRF etc. 	Management, Principal, All Departmental Heads & Staff Development committee	Annual
❖ To recruit good quality, and experienced faculty members in diversified domains as per upcoming areas required for better employability	❖ Explore possibilities of advance increments to new recruits who are highly qualified faculties.	❖ To create an academic environment by adequate teaching and non-teaching staff like lab- assistants, departmental clerks, peons, etc.	Management, Principal, All Departmental Heads & Staff Development committee	Annual



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Students: BVM adopts various measures to ensure expeditious adaptation of first-year students. The Institute subscribes to the view that BVM has a responsibility of integrating students into all spheres of campus life. As the diversity of incoming students increases, the Institute will take several proactive measures to make it easier for first-year undergraduate and postgraduate students to adjust to the academic and social life on campus. Personality development is considered very important for all students, from undergraduates and post graduates.

Strategic goal	Strategy	objective	Responsibility	Timeline
<ul style="list-style-type: none">❖ Encourage student engagement❖ Improve Student Employability❖ Enhance Soft skill development	<ul style="list-style-type: none">❖ Addition of more industry engagement opportunities for students, i.e., site visits, guest lectures, internships, projects, employability, soft skill training etc.❖ Review of student stress levels, workload levels and wellness❖ Enhance computing support for better ease of access and introduce personality development sessions❖ Prepare the students for national and international level competitive exams❖ Take remedial classes and give regular assignments and mini projects.	<ul style="list-style-type: none">❖ To strengthen co-op education and external engagement❖ To develop a continuous improvement process by performing regular counselling on individual basis❖ To provide enhanced teaching and learning environment To increase the eligibility of students for securing admission in higher studies❖ To prepare students for placements & employability	Faculty members, Training & Placement Committee & III committee	Annual




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Infrastructure: The infrastructure of institute will be continuously upgraded to cope with development of BVM. The laboratories are upgraded with new Instrument, Equipment, software and required accessories. Energy conservation measures being implemented include increasing the efficiency of appliances and the use of renewable energy sources. Progressively, measures will be introduced to minimise energy consumption for air-conditioning.

Strategic goal	Strategy	objective	Responsibility	Timeline
❖ Develop digital Classrooms	❖ Apply under UGC, AICTE grant and Alumni grant	❖ Effective teaching learning process	Management, Principal, Head & Infrastructure planning and support committee	Annual
❖ Advanced Laboratories Development	❖ Apply for grant under MODROB, UGC, GTU, AICTE, various donors (Alumni or Industry)	❖ Provide advanced conceptual knowledge of recent trend ❖ To get project consultancy	Management, Principal, Head & Infrastructure planning and support committee	Annual
		❖ To create innovative research project		



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❖ Improve facilities and effective utilization of resources	❖ Raising Alumni fund for the repairing and maintenance work ❖ Efforts to establish center of excellence	❖ Improve facilities and upgrade laboratories ❖ Laboratory ambience by removal of obsolesce	Management, Principal, Head & Infrastructure planning and support committee	Annual
❖ Maintenance of laboratories and classrooms	❖ Timely service and repair of existing electrical equipment and ICT in laboratories and classrooms	❖ Proper and adequate maintenance of existing infrastructure and equipment of laboratories and classrooms.	Management, Principal, Head & Infrastructure planning and support committee	Annual
❖ Improve facilities for hostels, campus and utilization of renewable energy.	❖ Effective use of solar energy & Green campus	❖ To keep campus green & clean.	Management, Principal & Green Campus Committee.	Annual




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Out Reach: Over the past decades, BVM has been providing technical expertise to Gujarat State Government and Various agencies. These outreach activities have taken the form of structural certification of vital infrastructure, environmental assessment, to give some examples. The Institute will enhance its role in this regard in the coming years and actively contribute its expertise to help improve governance and speed up development.

Strategic goal	Strategy	objective	Responsibility	Timeline
❖ Participate and increase community outreach activities	❖ Form community outreach subcommittee to enhance recruitment and community involvement ❖ Engage engineering open-houses, host other public educational events and participate in high school fairs. ❖ Support outreach activities of students and professional bodies,	❖ To increase global recognition and accessibility	Principal, Heads & International affairs committee.	Annual
❖ Attract International Students and Faculty	❖ Increase number of staff in the International Relations Office. ❖ Enhance information availability and publicity in target countries to attract students. ❖ Enhanced link with partner international universities by providing dedicated budgets. ❖ Facilitate student exchange and joint-PhD programmes. ❖ Attract international faculty on long term appointments.	❖ Increase percentage of International students (exchange students and regular students) ❖ Increase number of long term International Faculty.	Principal, Heads & International affairs committee	Annual
❖ Develop programs with international universities	❖ Identify relevant industry applicable syllabus with international Standards	❖ To achieve academic standards at par with global industries	Principal, Heads & International affairs committee.	Annual





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Placement: Placement of undergraduate students, which has traditionally been good, will be fine-tuned to meet the aspirations of the students and expectations of employers. Students will be trained to position their research or project work and to match their specialised knowledge with job opportunities. BVM will encourage and support overall development of students in numerous ways.

Among the benefits of such development is the advantage it bestows for employment. Students will be provided career counselling.

Strategic goal	Strategy	objective	Responsibility	Timeline
❖ To proactively reach out to industry and academia for excellent placement opportunities.	❖ Identify hiring needs and new companies for internship & placement ❖ Create interest among students for on-campus placement by motivational talks by eminent industrialist	❖ To increase the number of placements & average pay package.	III committee, Training & Placement Cell	Annual
❖ Increase funding for fellowships and research internships	❖ Promote innovation, technology transfer and commercialization of research as a key outcome,	❖ Engagement with industry & receiving quality research project	III committee	Annual
❖ Increase employability & personality development	❖ Employability skill Training & Development programmes ❖ Mock interview preparations	❖ To increase Students self-confidence and industry readiness	III committee, Training & Placement Cell	Annual




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P.O Box No: 20, Vallabh Vidyanagar, Gujarat – 388120

Ph. No: (O) (02692) 230104, (P) (02692) 236672

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Dr. Indrajit Patel
PRINCIPAL



Birla Vishvakarma Mahavidyalaya
BVM Engineering College
An Autonomous Institution
(Managed by Charutar Vidya Mandal,

Estd.: 1948

Strategic goal	Strategy	objective	Responsibility	Timeline
❖ Enhance alumni and industry connections	❖ Strengthen existing and build new relationships with alumni and industry for partnership and fundraising opportunities. ❖ Keep the faculty in closer contact with its alumni.	❖ To foster Alumni Institute interactions	BVM alumni Association	Annual
❖ To develop and nurture Alumni relations for benefit of department like infrastructure development, expert talk, career guidance, project guidance, mentorship, providing internship	❖ To contact Alumni students through faculty contacts, Alma Shines interface on www.bvmalumni.ac.in, social media platforms, emails, WhatsApp, LinkedIn, etc.	❖ For the overall development of institute as regards to infrastructure, placement, internship, research projects, expert lectures, etc. ❖ To generate corpus fund of 75 crores.	BVM alumni Association	Annual

Accreditation: The National Board of Accreditation (NBA) is the major accreditation body for Engineering and Management Programs in India. It is mandatory for major branches to acquire accreditation from NBA. The National Assessment and Accreditation Council (NAAC) aims at assessing quality of higher education.



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Strategic goal	Strategy	objective	Responsibility	Timelin e
<ul style="list-style-type: none">❖ To secure NBA accreditation for department❖ To secure NAAC accreditation for institute	<ul style="list-style-type: none">❖ Maintaining Student teacher ratio as well as improving conversion rate from 1st year onwards.❖ Focus on Co-curricular activities as well as improving success rate in placement and competitive exams.❖ Conducting make up classes for late admission (D2d, First Year students)❖ MOU with multinational companies❖ Student exchange program❖ Conducting Expert talks and Industrial trainings and Remedial Lectures for weak students.❖ Updating syllabus as per technical needs of the industries. (Flexibility in the syllabus)❖ Preparing Laboratory Modernizing Scheme Proposals as well as	<ul style="list-style-type: none">❖ Increase Student & industries trust on the institute❖ Attaining accountability among Foreign University & higher education regulators❖ To avail grants from govt. & non- govt. agencies.	Management, Principal, Heads	2022



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Section 5: The Path Ahead: Strategic Plan 2020–2023 sets out specific targets in every sphere of activity of the Institute—academic programmes, research, collaboration with industry, human resource development, entrepreneurship, Development of infrastructure and facilities, student life, placement, community outreach, international And alumni relations. These targets have been set after extensive consultation to ensure that they are both ambitious and achievable.




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