



SELF STUDY REPORT

FOR

1st CYCLE OF ACCREDITATION

BIRLA VISHVAKARMA MAHAVIDYALAYA

**BIRLA VISHVAKARMA MAHAVIDYALAYA, POST BOX NO. 20, VALLABH
VIDYANAGAR**

388120

www.bvmengineering.ac.in

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1. EXECUTIVE SUMMARY

1.1 INTRODUCTION

“The future of India lies in its Villages” with the vision of **Mahatma Gandhiji**, Birla Vishvakarma Mahavidyalaya (BVM) has been established, having the prime objective of rural development through education to bring about the social awakening, social upliftment and enrichment. BVM Engineering College, functions under the aegis of Charutar Vidya Mandal (CVM), is the first engineering college of the state of Gujarat, established in 1948, with the inspiration and motivation from **Iron Man of India Shri Sardar Vallabhbhai Patel** and a generous contribution from Shri Ghansyamdasji Birla which was inaugurated by His Excellency Lord Mountbatten. The torchbearers were Shri Bhaikaka and Shri Bhikhabhai Saheb, who burnt the midnight oil to plan and execute the project of establishing an Engineering college in a rural area called Vallabh Vidyanagar. Since its inception, BVM has been nurtured and mentored by Shri Sardar Vallabhbhai Patel, Shri Morarji Desai, Shri G V Mavlankar, Dr. H M Patel, Dr. C. L. Patel, and currently by Er Bikhubhai Patel. The motto of BVM is ‘Work is Worship’.

BVM is approved by AICTE and is affiliated with Gujarat Technological University, Ahmedabad and offers 9 UG and 8 PG programs. BVM has produced more than 20,000 graduates, spread across the globe and serving in Education, Technology, Social Engineering and Politics. BVM graduates reached great heights professionally includes Dr. A M Naik (Group Executive Chairman, L & T), Shri Tulsibhai Tanti (Chairman & MD, Suzlon), Prof. S. K. Khanna (Former Chairman, AICTE), Shri Prayasvin Patel (Chairman & MD, Elecon Group), Shri Anil Patel (Founder, Apollo Group), Er. Manoj Gupta (CEO, Zomato), Shri Narottambhai Patel (Former Minister, GoG), Shri Bharatsinh Solanki (Former Minister, Government of India), Er. Dhirubhai Babaria (M D of 5 industries and 2 banks Industries HighTech, Milkpad, BC Electronics Dallas), Er. Ashokbhai C. Patel (Principal Phoenix Arizona USA and donor of Ashok Rita Patel Institute of Integrate), Er. Kishor B.Virani (MD of Karp Impex Limited Surat), Er. Nitin Desai (Desai Brothers Limited), Er. Anilbhai Bakeri (Bakeri Associates Ahmedabad), Shreya Gandhi (Scientist, ISRO), and Many More.

The Institute has been awarded with TEQIP-II and III projects worth 17 crores.

Vision

"Produce globally employable innovative engineers with core values".

Mission

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

CORE VALUES:-

- Transparency
- Knowledge Networking
- Team work
- Optimization
- Quality
- Pro-activeness
- Creativity
- Lifelong learning

1.2 Strength, Weakness, Opportunity and Challenges(SWOC)**Institutional Strength**

- Very strong stakeholder base being the first engineering college of Gujarat State
- Grant-in-aid engineering college
- Created to cater rural academic needs
- TEQIP-II and TEQIP-III funded institute with high performance
- Financially sound management namely Charutar Vidyamandal (CVM), managing around 50 institutes (Science, Commerce, Arts, Engineering, Medical, Pharmacy etc.) right from Kindergarten to Doctorate.
- Good Academic and Administrative Governance with transparency
- Highly qualified, experienced and competent faculty
- Outstanding performance in Academic and non-academic activities
- Testing and consultancy work by various departments resulting in good internal revenue generation (IRG)
- Nearly hundred percent faculty retention
- Around 20 years of average experience of faculty members
- Satisfactory staff cadre ratio and student ratio as desired by the competent authorities.
- Meritorious students admitted from across Gujarat State
- High academic standards reflected by NBA (tier-II), UGC Autonomy and TEQIP projects
- Periodic Curriculum design, pedagogy and evaluation to meet the contemporary technological requirements.
- Outcome-based education (OBE) being adopted as best practices
- R&D projects, MODROBs, and Patents
- Infrastructure like, air-conditioned auditorium, state of the art laboratories, ICT enabled classrooms, Digitalised and resourceful library, seminar halls, Wi-Fi enabled campus, LRUC (Learning Resource Utilization Centre), e-learning resources, CCTV surveillance based security system, contact less bio-metric system, roof-top solar system 100kW, power backup 200kVA, transport facility, Yoga and meditation room and student activity center (SAC).
- Student Startup & Innovation Policy (SSIP) cell
- Very strong alumni of over 20000 spread across the globe.
- Incorporation of MOOC courses into the curriculum.
- Admission from Indian Council for Cultural Relations (ICCR).
- Industry collaborative laboratories established and being regularly used in form of the Centre of

Excellence (CoEs).

Institutional Weakness

- Couple of patents and intellectual property rights
- Lean national presence
- Moderate research
- Geographical Location of Institute

Institutional Opportunity

- Possibility of having adjunct faculty from Alumni and Corporates around
- Increase number of faculty with PhD
- Faculty exchange programs with foreign universities having MOUs
- Increase number of peer-reviewed research publications
- Placement and higher education enhancement

Institutional Challenge

- Keeping pace with global development in pedagogy and research
- Enhancing placement including self-employment
- Exploring the possibility of international placement
- International research collaboration

1.3 CRITERIA WISE SUMMARY

Curricular Aspects

Academic autonomy has given the Institute the responsibility of designing the curriculum according to contemporary needs. This responsibility is well shouldered by periodic curriculum revision taking into confidence all the stakeholders. The curriculum is revised keeping in mind: the AICTE model curriculum as well as credit and contact hour's guidelines; the affiliating university guidelines; the requirements of various competitive examinations; suggestions from other stakeholders like industry. The frequency of revision is roughly kept as 3 years, looking into the pace with which technology changes. These exercises are aimed at attaining the PO's defined by NBA and PSO's.

BVM was a pioneer in introducing the Choice Based Credit System (CBCS) model in the Gujarat Technical Education arena. The academic autonomy became handy for effective implementation of CBCS and is reflected through program and institute electives offered during the course span. To enhance the industrial exposure and to cater learning beyond the curriculum, Internship is made compulsory for the students during vacations.

Institute also encourages the conduction of regular value-added programs for focused development of skills in the core/allied domain beyond the curriculum for interested students. These value-added programs are usually focused on multi-disciplinary activities. Mechanisms are in place for academic audits as well as feedback from

stakeholders towards continuous improvements in Curriculum, design and delivery.

Teaching-learning and Evaluation

Outcome-based education (OBE) is the student-centric universal approach, wherein the teaching-learning process has undeniable significance, involving good quality and well-experienced faculty in sufficient quantity. BVM faculty have an average teaching experience of around 20 years. The availability of ICT enabled classrooms and their effective use by faculty converges into a better student-centric teaching-learning process. The college has adopted many Innovative Processes in Teaching and Learning like and the institution is consciously putting efforts to further encourage innovation in Teaching and Learning. There is good demand for the seats offered by the institute. Students enrolling into BVM are top rankers of Gujarat State, coming from diverse backgrounds. The holistic development of students is monitored through an effective mentoring system involving faculty councillors.

Academic Audits (internal/external) is conducted for continuous improvement. Industry participation is mandatory for the Academic Council (AC) as well as the Board of Studies (BoS). Moreover, an Industry Consultation Committee (ICC) is functioning very well in each department with regular meetings. The mandate of ICC is to bring in suggestions to improve the syllabus incorporating industry needs. The College publishes the Rules and Regulation for all Programmes. In addition to academic rules and regulations, the regulations governing examination, evaluation and mal-practice etc., have been manifested and published. The processes mentioned above ensure fair and uniform conduction, evaluation of examination. To strengthen and enhance the academic system, feedback from the students and other stakeholders. The institution continues to adopt improved examination processes. The Internal Quality Assurance Cell conducts quality audits for improving academic quality. The Evaluation process is transparent. Students are evaluated on a continuous assessment system, comprising of written examinations, class seminars, and assignments. Students can peruse the valued answer scripts of the internal tests, and provision is being made to enable the perusal of answer scripts of the final examinations on a demand basis.

Research, Innovations and Extension

Apart from pedagogy, BVM acknowledges innovations, research and consultancy as key focus areas. To enhance research as well as innovation among faculty and students and extension, the institute has developed centres of excellence, innovative and industry supported labs. These modern and well-equipped facilities are intended to create research opportunities for students, faculty and researchers and are intended to promote Research & Innovation among the faculty & students. The increased number of publications, grants, patents and consultancy depicts the use of these canters for societal use. Centralized labs/ facilities like computer centre, physics lab, workshops, etc. have been established for the benefit of first-year students. The college library has a good collection of books and journal subscriptions to promote the teaching-learning process as well as to facilitate research. Institute has started collaborative activities with various foreign Universities and research organizations for the benefit of students and faculty and the community at large. The entrepreneurship development cell and industry-institute interaction cell encourages forging collaborations with the outside world, especially with industries around. These initiatives put forth depicts the resolve of BVM Engineering College to move forward strongly in research and innovations through post-graduate and doctoral programs. Platforms like NCC and NSS sensitize the students in the context of the needs of the society as well as the country, which could be a catalyst of moulding the young generation of commitment and values.

Infrastructure and Learning Resources

The extensive infrastructure of the college is spread over 18.96 acres with a total built-up area of 35704 square meters. The infrastructure houses administrative and academic sections, Departments, State of the Art laboratories, Incubation Centres/Innovative Labs, Centre of excellence, well-furnished classrooms, Auditorium, Conference Halls, Digital Classrooms, library, training and placement cell, cafeteria, health care centre, roads, power supply systems, water supply, playground, hostels, guest house, etc. The intranet facility provides is with a speed of 10 GBPS and 700 MBPS. Website of the college hosts all official documents and communications. The Library is housed in a spacious building 2483.82 SQMT and has a seating capacity of 200. The library has 12163 titles and 68256 volumes apart from printed journals (National & International 153 and e-journals 4 packages including 1300+ periodicals). Open access system (Dewey Decimal Classification Scheme) Online access of international databases (digital library) Member of National Digital Library & VTU's e-Consortium Access to 9 databases; 8641 e-Journals Digitized 900 CDs' and accessed through intranet NPTEL video lectures (338 Nos.) for reference Reprographic/Scanning/Printing facilities Departmental libraries for ready reference. All departments of the institute, are having well-equipped, well maintained, well-spaced and ventilated laboratories. Each laboratory has state-of-art equipment necessary to conduct a corresponding course in the laboratory. All the computer laboratories possess high-end PCs. Separate Hostels are provided for Men and Women with all necessary amenities for study and recreation. The Placement and Training Cell very active in facilitating job opportunities and recruitments to young engineers. Apart from these, BVM has facilities for sports, gym and cultural activities. The buildings & equipment are maintained regularly. Adequate firefighting facilities, parking spaces, backup power generation facilities are some of the other facilities provided.

Student Support and Progression

BVM offers student's ample opportunities to participate in curricular, co-curricular and extra-curricular activities intend to mould them as balanced personalities capable of shouldering responsibilities. Various Professional Bodies/Student Forums/Clubs provide an opportunity for students to participate in a wide range of Co-Curricular, Extra-Curricular, Social and Community Development Activities. Fully Committed NSS, NCC, Women Cell units, etc. are in place. The College facilitates State Government scholarships, Scholarship through BVM Alumni and Fees Concession through TFWS scheme/ MYSY Scheme for different section students, Awards to Meritorious Students. Students actively participate in the feedback system as well. The Training & Placement Cell provides career guidance and training to help students in getting placements and training. Only eligible students (Minimum eliglibility is first class), eligibility varies from comapny to company, are permitted to appear in campus placement. Entrepreneurship Development Cell nurtures the idea of entrepreneurship among the students. Know-How, Industry Readiness Training Program and Skill Enhancement Program is organized every year. The students are exposed to current research through expert lectures from people of eminence. Every year best student projects are recognized and awarded during project expo. Prominent professionals from the industries in evaluate the projects during the project expo. Competitive examinations like GATE, CAT, etc is promoted. The BVM Alumni Association has now 12015 strong members and is very active in the development of the institute. Association keeps live contact between BVM and Alumni. Prominent alumni of BVM are: Dr C L Patel, Dr A M Naik, Shri Jitubhai Tanti, Shri Prayasvin Patel, Shri Surendrabhai Patel, Shri Anil Patel, Shri Narottambhai Patel, Shri Bharat Solanki, and Shri Kishore Virani, to name a few. Many scholarships are instituted by our Alumni, like ELCare, constituted by Elecon group to provide scholarships to poor and needy as well as meritorious children of BVM.

Governance, Leadership and Management

BVM Board of Governance (BoG) is constituted according to the statutory provisions. Two faculty members are nominated as members of BoG. The BoG meets at least four times per year. The BoG adopts a transparent governance mechanism. The BoG approves the strategic Plan and budget required to fulfil it, apart from monitoring implementation of the same. The institution adheres to the Good Governance practices; a well-prepared document is published. The BoG reviews/ratifies the proceedings Academic Council, TEQIP, Finance, disciplinary, etc. Many senior faculty members occupy pivotal administrative positions like, Deans, Heads, Credit System Office, Controller of Examination Placement Officer, Hostel Rectors and Wardens, , etc., and are also members of various decision making and administrative bodies. As part of the Departmental Academic Committee [DAC], the faculties provide their inputs on all academic-related matters. All the Head of the Departments are members of the academic council, college council and HoDs Council where major academic/administrative decisions are being addressed. A decentralized functioning mechanism empowers the departments to function with greater flexibility. Students and staff can approach the Principal, Deans, HoD's for problems which require immediate attention and are redressed on top priority. There is a duly formed grievance redressal cell for students and parents. An effective and participative decision-making process is adopted to achieve the vision, mission and goals of the institution and also in building an effective organizational culture. Recognition and appreciation of Faculty and Students are done regularly by Institute. A well-established feedback mechanism is in place. Regular academic audit (both internal and external) are conducted.

Institutional Values and Best Practices

The institution strives to uphold human values and adopts good practices to maintain the integrity of its stakeholders to ensure 360 degree development of graduates.

Academics: Institute follows outcome based education. Industry Institute Interaction cell facilitates live interaction between the institute and industries in order to mould industry ready budding engineers. Weaker students have make-up classes. Saturdays are exclusively used for Learning beyond Curriculum activities.

Gender Equity: The institution makes much efforts to empower women faculty and students.

Women Cell organises numerous events, awareness programs, etc. for ladies. Students are also encouraged to participate in all extra-curricular activities including self-defence methods.

The Anti-Sexual Harassment Committee: This committee holds several interactions with the students and faculty and brings awareness on sexual harassment. CCTV is put at critical positions to monitor the movements of students. Separate common room and hostel are in place for girl students. Women faculty counsellors support girl students and are always approachable.

The Anti-ragging committee: This committee ensures that the campus and hostels are ragging-free.

Faculty Councillor: One faculty councillor is assigned to each student to monitor, guide and support students during their tenure in the institute.

Celebration of National Festivals: The institute organizes national festivals. The Institution conducts multiple extension activities like tree plantation, Swatch Bharat Abhiyaan, etc.

Commitment to Society: To make the students aware of their responsibility towards society, faculty members

organize programs like Village development projects, Blood Donation Camps, Gram Swachata Abhiyan and Village Development program, Tree plantation activities, Health Camps, Campaign about voter awareness program, Program on energy Awareness and energy Audit guidance for student, Yoga Awareness Training for faculty and student and One student – one tree program under Social Committee of the institute. Forums like NSS, NCC, Bachpan are available for the overall growth of the students. BVM- NCC is awarded as Best NCC by Gujarat Technological University for the year 2019-2020. Rainwater-harvesting, E-waste management, energy conservation etc. is in place.

Facilities for physically challenged: The Institute provides special facilities for caring differently abled students. Infrastructure facilities like Ramp/Rails, Provision for Lift, and Toilets on same level are provided wherever required.

NAAC

2. PROFILE

2.1 BASIC INFORMATION

Name and Address of the College	
Name	BIRLA VISHVAKARMA MAHAVIDYALAYA
Address	BIRLA VISHVAKARMA MAHAVIDYALAYA, Post Box No. 20, Vallabh Vidyanagar
City	Vallabh Vidyanagar
State	Gujarat
Pin	388120
Website	www.bvmengineering.ac.in

Contacts for Communication					
Designation	Name	Telephone with STD Code	Mobile	Fax	Email
Principal	Indrajit N. Patel	02692-230104	9898034464	02692-23667 2	naac@bvmengineering.ac.in
IQAC / CIQA coordinator	P. M. George	02692-230103	7016569409	02692-23667 3	pmgeorge@bvmengineering.ac.in

Status of the Institution	
Institution Status	Grant-in-aid and Self Financing

Type of Institution	
By Gender	Co-education
By Shift	Regular

Recognized Minority institution	
If it is a recognized minority institution	No

Establishment Details	
Date of Establishment, Prior to the Grant of 'Autonomy'	30-06-1948

Date of grant of 'Autonomy' to the College by UGC		29-04-2015		
University to which the college is affiliated				
State	University name	Document		
Gujarat	Gujarat Technological University	View Document		
Details of UGC recognition				
Under Section	Date	View Document		
2f of UGC	02-06-2014	View Document		
12B of UGC	02-06-2014	View Document		
Details of recognition/approval by stationary/regulatory bodies like AICTE,NCTE,MCI,DCI,PCI,RCI etc(other than UGC)				
Statutory Regulatory Authority	Recognition/Approval details Institution/Department programme	Day,Month and year(dd-mm-yyyy)	Validity in months	Remarks
AICTE	View Document	30-04-2020	12	

Recognitions	
Is the College recognized by UGC as a College with Potential for Excellence(CPE)?	No
Is the College recognized for its performance by any other governmental agency?	No

Location and Area of Campus				
Campus Type	Address	Location*	Campus Area in Acres	Built up Area in sq.mts.
Main campus area	BIRLA VISHVAKARMA MAHAVIDYALAYA, Post Box No. 20, Vallabh Vidyanagar	Rural	18.96	35704

2.2 ACADEMIC INFORMATION

Details of Programmes Offered by the College (Give Data for Current Academic year)						
Programme Level	Name of Programme/Course	Duration in Months	Entry Qualification	Medium of Instruction	Sanctioned Strength	No.of Students Admitted
UG	BTech,Civil Engineering	48	XII	English	120	120
UG	BTech,Mechanical Engineering	48	XII	English	120	120
UG	BTech,Mechanical Engineering	48	Diploma	English	30	0
UG	BTech,Production Engineering	48	XII	English	60	42
UG	BTech,Information Technology	48	XII	English	60	60
UG	BTech,Electronics Engineering	48	XII	English	75	75
UG	BTech,Electronics And Communication	48	XII	English	60	56
UG	BTech,Electrical Engineering	48	XII	English	60	60
UG	BTech,Computer Engineering	48	XII	English	60	60
PG	Mtech,Civil Engineering	24	B.E. OR B.Tech	English	18	10
PG	Mtech,Civil Engineering	24	B.E. OR B.Tech	English	18	18
PG	Mtech,Civil Engineering	24	B.E. OR B.Tech	English	18	18
PG	Mtech,Struct	24	B.E. OR	English	18	18

	ural Engineering		B.Tech			
PG	Mtech,Structural Engineering	24	B.E. OR B.Tech	English	18	9
PG	Mtech,Mechanical Engineering	24	B.E. OR B.Tech	English	18	13
PG	Mtech,Electrical Engineering	24	B.E. OR B.Tech	English	18	7
PG	Mtech,Computer Engineering	24	B.E. OR B.Tech	English	25	13

Position Details of Faculty & Staff in the College

Teaching Faculty												
	Professor				Associate Professor				Assistant Professor			
	Male	Female	Others	Total	Male	Female	Others	Total	Male	Female	Others	Total
Sanctioned by the UGC /University State Government	18				40				79			
Recruited	12	2	0	14	24	6	0	30	54	14	0	68
Yet to Recruit	4				10				11			
Sanctioned by the Management/Society or Other Authorized Bodies	11				17				43			
Recruited	1	0	0	1	6	0	0	6	32	11	0	43
Yet to Recruit	10				11				0			

Non-Teaching Staff				
	Male	Female	Others	Total
Sanctioned by the UGC /University State Government				72
Recruited	50	3	0	53
Yet to Recruit				19
Sanctioned by the Management/Society or Other Authorized Bodies				23
Recruited	23	0	0	23
Yet to Recruit				0

Technical Staff				
	Male	Female	Others	Total
Sanctioned by the UGC /University State Government				29
Recruited	19	1	0	20
Yet to Recruit				9
Sanctioned by the Management/Society or Other Authorized Bodies				21
Recruited	20	1	0	21
Yet to Recruit				0

Qualification Details of the Teaching Staff

Permanent Teachers										
Highest Qualification	Professor			Associate Professor			Assistant Professor			Total
	Male	Female	Others	Male	Female	Others	Male	Female	Others	
D.sc/D.Litt.	0	0	0	0	0	0	0	0	0	0
Ph.D.	13	2	0	15	4	0	13	5	0	52
M.Phil.	0	0	0	0	0	0	0	0	0	0
PG	0	0	0	15	2	0	61	12	0	90

Temporary Teachers										
Highest Qualification	Professor			Associate Professor			Assistant Professor			Total
	Male	Female	Others	Male	Female	Others	Male	Female	Others	
D.sc/D.Litt.	0	0	0	0	0	0	0	0	0	0
Ph.D.	0	0	0	0	0	0	0	0	0	0
M.Phil.	0	0	0	0	0	0	3	0	0	3
PG	0	0	0	0	0	0	9	8	0	17

Part Time Teachers										
Highest Qualification	Professor			Associate Professor			Assistant Professor			Total
	Male	Female	Others	Male	Female	Others	Male	Female	Others	
D.sc/D.Litt.	0	0	0	0	0	0	0	0	0	0
Ph.D.	0	0	0	0	0	0	0	0	0	0
M.Phil.	0	0	0	0	0	0	0	0	0	0
PG	0	0	0	0	0	0	0	0	0	0

Details of Visting/Guest Faculties				
Number of Visiting/Guest Faculty engaged with the college?	Male	Female	Others	Total
		16	5	0

Provide the Following Details of Students Enrolled in the College During the Current Academic Year

Programme		From the State Where College is Located	From Other States of India	NRI Students	Foreign Students	Total
UG	Male	2398	23	49	2	2472
	Female	323	7	8	0	338
	Others	0	0	0	0	0
PG	Male	146	0	0	7	153
	Female	73	0	0	0	73
	Others	0	0	0	0	0

Provide the Following Details of Students admitted to the College During the last four Academic Years					
Programme		Year 1	Year 2	Year 3	Year 4
SC	Male	40	35	46	40
	Female	11	9	7	8
	Others	0	0	0	0
ST	Male	54	53	63	57
	Female	14	9	13	8
	Others	0	0	0	0
OBC	Male	271	216	228	174
	Female	25	26	25	24
	Others	0	0	0	0
General	Male	303	428	474	497
	Female	69	76	96	88
	Others	0	0	0	0
Others	Male	137	0	0	0
	Female	9	0	0	0
	Others	0	0	0	0
Total		933	852	952	896

2.3 EVALUATIVE REPORT OF THE DEPARTMENTS

Department Name	Upload Report
Civil Engineering	View Document
Computer Engineering	View Document
Electrical Engineering	View Document
Electronics And Communication	View Document
Electronics Engineering	View Document
Information Technology	View Document
Mechanical Engineering	View Document
Production Engineering	View Document
Structural Engineering	View Document

Extended Profile

1 Program

1.1

Number of programs offered year-wise for last five years

2019-20	2018-19	2017-18	2016-17	2015-16
17	17	17	17	16
File Description			Document	
Institutional data in prescribed format			View Document	

1.2

Number of departments offering academic programmes

Response: 9

2 Students

2.1

Number of students year-wise during last five years

2019-20	2018-19	2017-18	2016-17	2015-16
3036	3010	3160	3142	3132
File Description			Document	
Institutional data in prescribed format			View Document	

2.2

Number of outgoing / final year students year-wise during last five years

2019-20	2018-19	2017-18	2016-17	2015-16
786	828	868	836	832
File Description			Document	
Institutional data in prescribed format			View Document	

2.3**Number of students appeared in the examination conducted by the Institution, year-wise during the last five years**

2019-20	2018-19	2017-18	2016-17	2015-16
2982	2940	3096	3095	3126
File Description		Document		
Institutional data in prescribed format		View Document		

2.4**Number of revaluation applications year-wise during last five years**

2019-20	2018-19	2017-18	2016-17	2015-16
224	336	397	247	46

3 Teachers**3.1****Number of courses in all programs year-wise during last five years**

2019-20	2018-19	2017-18	2016-17	2015-16
568	455	420	446	441
File Description		Document		
Institutional data in prescribed format		View Document		

3.2**Number of full time teachers year-wise during the last five years**

2019-20	2018-19	2017-18	2016-17	2015-16
162	161	164	158	163
File Description		Document		
Institutional data in prescribed format		View Document		

3.3

Number of sanctioned posts year-wise during last five years

2019-20	2018-19	2017-18	2016-17	2015-16
208	208	208	208	205
File Description		Document		
Institutional data in prescribed format		View Document		

4 Institution**4.1****Number of eligible applications received for admissions to all the programs year-wise during last five years**

2019-20	2018-19	2017-18	2016-17	2015-16
933	852	952	896	910
File Description		Document		
Institutional data in prescribed format		View Document		

4.2**Number of seats earmarked for reserved category as per GOI/State Govt rule year-wise during last five years**

2019-20	2018-19	2017-18	2016-17	2015-16
520	450	450	450	441
File Description		Document		
Institutional data in prescribed format		View Document		

4.3**Total number of classrooms and seminar halls****Response: 60****4.4****Total number of computers in the campus for academic purpose****Response: 911**

4.5

Total Expenditure excluding salary year-wise during last five years (INR in Lakhs)

2019-20	2018-19	2017-18	2016-17	2015-16
771.75	660.29	774.61	765.60	624.91

NAAC

4. Quality Indicator Framework(QIF)

Criterion 1 - Curricular Aspects

1.1 Curriculum Design and Development

1.1.1 Curricula developed and implemented have relevance to the local, national, regional and global developmental needs which is reflected in Programme outcomes (POs), Programme Specific Outcomes(PSOs) and Course Outcomes(COs) of the Programmes offered by the Institution.

Response:

Curricula developed and refined periodically, keeping in mind the developmental needs, technological growth, program outcomes (PO's), program specific outcomes (PSO's) and course outcomes (CO's) of all the programs offered by the Institution.

Curriculum Design: The Curriculum is designed to ensure that the students have acquired knowledge of the domain, skills and attitude to make them globally employable innovative engineers with core values (quality, creativity, team work, lifelong learning, proactiveness, cost consciousness, sharing, transparency).

The Basis: The designed curriculum is based on: (i) Model curriculum prescribed by AICTE, (ii) Curricular structure of GTU, (iii) Suggestions by industry experts and alumni, (iv) Syllabus for various competitive exams like GATE, IES, etc., (v) Syllabus of various reputed Indian and

International Universities/ Institutes, (vi) Recent technological developments in various domains.

Addressing PO's through the Curriculum: the curriculum is designed by incorporating subjects like humanities and social sciences including management, basic sciences, engineering science, program cores, professional/ program electives, open electives, project work, mandatory non-credit courses. The curricular structure incorporates different types of subjects, contact hours and credits. The detailed syllabus of a course contains the course objective(s), course outcomes and its mapping with the Program Outcomes and the Program Specific Outcomes. It is ensured that the CO-PO mapping of the various core-courses of the curriculum is such that every PO is addressed by a minimum of two courses. This approach injects quality into the designed curriculum. Effectively implemented Outcome Based Education ensures that graduating engineers have all the 12 PO's to make them globally competitive. Every program has 2-3 Program Educational Objectives that are measured through the performance of the alumni, 3-4 years after graduation.

Process for Curriculum Design: The draft curriculum prepared based on the above design criteria and through discussions with stakeholders. The proposed curriculum is presented to the industry consultation committee for their suggestions and subsequently to the Board of Studies for deliberations and approval. The final is then placed in the Academic Council (AC) for discussion and approval.

File Description	Document
Link for Additional Information	View Document

1.1.2 Percentage of Programmes where syllabus revision was carried out during the last five years.**Response:** 100**1.1.2.1 Number of all Programmes offered by the institution during the last five years.**

Response: 17

1.1.2.2 How many Programmes were revised out of total number of Programmes offered during the last five years

Response: 17

File Description	Document
Minutes of relevant Academic Council/BOS meeting	View Document
Details of program syllabus revision in last 5 years(Data Template)	View Document
Link for Additional Information	View Document

1.1.3 Average percentage of courses having focus on employability/ entrepreneurship/ skill development offered by the institution during the last five years**Response:** 100**1.1.3.1 Number of courses having focus on employability/ entrepreneurship/ skill development year-wise during the last five years..**

2019-20	2018-19	2017-18	2016-17	2015-16
568	455	420	446	441

File Description	Document
Programme / Curriculum/ Syllabus of the courses	View Document
MoU's with relevant organizations for these courses, if any	View Document
Minutes of the Boards of Studies/ Academic Council meetings with approvals for these courses	View Document
Average percentage of courses having focus on employability/ entrepreneurship(Data Template)	View Document
Link for Additional Information	View Document

1.2 Academic Flexibility

<p>1.2.1 Percentage of new courses introduced of the total number of courses across all programs offered during the last five years.</p> <p>Response: 56.35</p>	
<p>1.2.1.1 How many new courses are introduced within the last five years</p> <p>Response: 1313</p>	
<p>1.2.1.2 Number of courses offered by the institution across all programmes during the last five years.</p> <p>Response: 2330</p>	
File Description	Document
Minutes of relevant Academic Council/BOS meetings	View Document
Institutional data in prescribed format	View Document
Link for Additional Information	View Document
<p>1.2.2 Percentage of Programmes in which Choice Based Credit System (CBCS) / elective course system has been implemented (Data for the latest completed academic year).</p> <p>Response: 100</p>	
<p>1.2.2.1 Number of Programmes in which CBCS / Elective course system implemented.</p> <p>Response: 17</p>	

File Description	Document
Minutes of relevant Academic Council/BOS meetings	View Document
Institutional data in prescribed format	View Document
Link for Additional Information	View Document

1.3 Curriculum Enrichment

1.3.1 Institution integrates crosscutting issues relevant to Professional Ethics ,Gender, Human Values ,Environment and Sustainability into the Curriculum

Response:

Curriculum Enrichment

Exposure to Human Values and Professional Ethics: The curriculum includes various courses to address personality enhancement, Professional Ethics and Human Values. Every student is exposed to a course titled “Ethics and Constitution of India”. The curriculum of all branches also includes courses like English, professional soft skills to round the personality and communication skills. Individual programs have included additional courses to address the professional requirements.

Internship: 5 to 6 weeks internship is mandatory.

Environment and Sustainability courses: The environment and its sustainability is taken care of by the curriculum by incorporating relevant courses. The B. Tech programs include an institute core course namely Environmental Sciences. However, additional course(s), according to the nature of the program, are incorporated to expose the budding engineers

with the repercussions of deteriorating the environment and the ways and means of restoring it. Mini projects/ Major Project: all programs offer major and minor projects. Major projects are one semester full time industrial projects. Minor projects are either at the institute or at

the industry.

File Description	Document
Upload the list and description of the courses which address the Gender, Environment and Sustainability, Human Values and Professional Ethics into the Curriculum	View Document
Any additional information	View Document

1.3.2 Number of value-added courses for imparting transferable and life skills offered during last five years.**Response:** 29**1.3.2.1 How many new value-added courses are added within the last five years**

2019-20	2018-19	2017-18	2016-17	2015-16
3	5	3	14	4

File Description	Document
List of value added courses (Data Template)	View Document
Brochure or any other document relating to value added courses	View Document

1.3.3 Average Percentage of students enrolled in the courses under 1.3.2 above.**Response:** 7.06**1.3.3.1 Number of students enrolled in subject related Certificate or Add-on programs year wise during last five years**

2019-20	2018-19	2017-18	2016-17	2015-16
66	248	101	352	329

File Description	Document
List of students enrolled	View Document
Any additional information	View Document

1.3.4 Percentage of students undertaking field projects/ internships / student projects (Data for the latest completed academic year)**Response:** 21.51**1.3.4.1 Number of students undertaking field projects / internships / student projects****Response:** 653

File Description	Document
List of programs and number of students undertaking field projects / internships / student projects (Data Template)	View Document
Any additional information	View Document

1.4 Feedback System

<p>1.4.1 Structured feedback for design and review of syllabus – semester-wise / year-wise is received from 1) Students, 2) Teachers, 3) Employers, 4) Alumni</p> <p>Response: B. Any 3 of the above</p>	
File Description	Document
Any additional information	View Document
Action taken report of the Institution on feedback report as minuted by the Governing Council, Syndicate, Board of Management	View Document
URL for stakeholder feedback report	View Document

<p>1.4.2 The feedback system of the Institution comprises of the following :</p> <p>Response: B. Feedback collected, analysed and action taken</p>	
File Description	Document
Any additional information	View Document
URL for stakeholder feedback report	View Document

Criterion 2 - Teaching-learning and Evaluation

2.1 Student Enrollment and Profile

2.1.1 Average Enrolment percentage (Average of last five years)

Response: 99.26

2.1.1.1 Number of students admitted year-wise during last five years

2019-20	2018-19	2017-18	2016-17	2015-16
933	852	952	896	910

2.1.1.2 Number of sanctioned seats year wise during last five years

2019-20	2018-19	2017-18	2016-17	2015-16
919	919	919	919	901

File Description	Document
Institutional data in prescribed format (Data Template)	View Document
Any additional information	View Document

2.1.2 Average percentage of seats filled against reserved categories (SC, ST, OBC, Divyangjan, etc. as per applicable reservation policy) during the last five years (exclusive of supernumerary seats)

Response: 78.87

2.1.2.1 Number of actual students admitted from the reserved categories year wise during last five years

2019-20	2018-19	2017-18	2016-17	2015-16
415	348	382	311	367

File Description	Document
Institutional data in prescribed format	View Document
Any additional information	View Document

2.2 Catering to Student Diversity

2.2.1 The institution assesses the learning levels of the students and organises special Programmes for advanced learners and slow learners

Response:

The institution assesses the learning levels of the students based on their performance in the continuous evaluation, end-semester evaluation, termwork, assignments, tutorials, quiz etc. The students are identified as advanced and slow learners. In order to improve academic performance, the institute organizes various special programs to support advanced and slow learners.

Slow Learners: The remedial/makeup classes are conducted to improve the academic performance of slow learners. The supporting materials such as lecture notes, online open-source materials, etc. have been provided to the students. The central library and Department library provides the books to the students for the complete semester. The slow learners are engaged in social activities, class activities and institution activities for their social and skill development. The faculty counsellors are appointed to each student and do counselling periodically until the completion of the degree. The counsellor monitors the academic performance of the students, guides the students to resolve their issues and motivate them to improve their overall academic performance. The faculty counsellor invites the parents if the students do not show improvement in the performance. The parents can walk into the department anytime to discuss their ward. Bridge courses are introduced in the first year to fill the gap between higher secondary and college learning, to get acquainted with the environment of the institute and honing up the English language skill and social skills.

Advanced Learners: The academic performance of advanced learners is improved by encouraging them to publish research papers in various journals and conferences. They are also motivated to participate in training programs/ symposiums/ seminars/ workshops. They are encouraged to participate in various national/state/inter-college technical activities such as Hackathon, Techfest, design competitions, poster presentations etc., co-curricular activities such Uddan, Volcano and sports activities to groom them as a well-rounded personality. They are motivated by giving challenging assignments/mini projects in the various courses to make them capable of facing open ended problems in their respective fields. The advanced learners are permitted to opt for one full semester major project at industries/ research organizations/ higher learning institutes. They also get an opportunity to transfer credits by registering in online MOOC/NPTEL/SWAYAM courses in place of program electives. These students are frequently counselled by the faculty counsellor to motivate and guide them to participate in the competitive exams and to pursue higher studies after their graduation. The training and placement cell of the institute organizes the classes to prepare them for the campus placement. The institute organizes the GATE classes for the students. The institute motivates advanced learners by giving rewards/awards/medals. Recently, the institute has introduced the dual degree program, honours degree program and academic collaboration with the foreign universities for the student exchange program for advanced learners. Advanced learners can harness the SSIP cell in order to nurture their creativity and innovation. This cell provides funding to promote the institute's young innovators to become an entrepreneur. This cell also facilitates filling the Patent of their innovative products.

File Description	Document
Any additional information	View Document

2.2.2 Student - Full time teacher ratio (Data for the latest completed academic year)

Response: 19:1

File Description	Document
Any additional information	View Document

2.3 Teaching- Learning Process

2.3.1 Student centric methods, such as experiential learning, participative learning and problem solving methodologies are used for enhancing learning experiences

Response:

Teaching Methodology:

All the departments have Digital smart board teaching. The Institute also has the lecture capturing platform, office 365, provides an E-Learning solution of automatic recording and distribution of classroom lectures. Assignments are given to the students to nurture their problem solving abilities. Collaborative learning is practiced, for example, the MOOCs tie-up with IIT-Bombay. The NPTEL video lectures are also adopted.

The “Think-Pair-Share” is implemented in the class rooms. Quizzes are conducted regularly. Faculty members use Powerpoint presentations in the classrooms to provide audio visual experience to the students. Technical competitions/Co-curricular activities are organized to enhance competitive learning among students,

All the departments have state-of-the-art laboratories to achieve academic excellence. Well planned exercises of these laboratories bring in Experiential Learning. Active learning assignments have been incorporated in the curriculum to inculcate self-learning ability in students. The students are also trained on modern simulation and analysis tools.

The industry visits/site visits/ survey camps are conducted regularly to expose the students to the contemporary topics and trends of the industry. Periodically workshops, training, seminars and guest lectures are also held to ensure the learning beyond curriculum. Industry experts are invited according to the requirements of the courses. The final year Projects are mentored and evaluated by experts from professional bodies and industry.

A mandatory internship course is incorporated in the curriculum to acquaint the students with the industrial environment. Project Based Learning is further strengthened by offering minor as well as major projects according to the academic requirements of the program. The students are also trained towards abstract writing, technical paper writing, literature survey and report writing.

Project expo is being held at the Institute level to showcase projects of final year students of B.Tech and M.Tech. This event acts as a motivating factor and opportunity for junior students to showcase their innovative ideas. These projects are evaluated by industry experts and the best three projects are awarded with cash prizes.

The mapping to the appropriate POs and COs is also done as per the Bloom's Taxonomy levels. The OBE is practiced in true spirit resulting in more focused all-round development of our students.

Industry-Institute-Interaction cell: One faculty and one industry initiative started to have collaboration with various industries for enhancing the learning levels of the graduates. Project Expo is organised under the aegis of Industry-Institute-Interaction cell.

Student Support System:

- Bridge courses for first year students are conducted.
- Make-up classes are organized for lateral entry students.
- Remedial Classes are conducted for the slow learners.
- The Departments have also evolved many best practices with student centric methods. Project/tinkering laboratories are available in the departments for students with an aim to experiment with their ideas.
- SSIP gives a platform to the students to showcase their ideas.
- The student could get financial assistance from TEQIP, SSIP as well as BVM Alumni Association.

The Institution ensures overall development of students through participatory learning experience.

File Description	Document
Any additional information	View Document

2.3.2 Teachers use ICT enabled tools including online resources for effective teaching and learning process.

Response:

- **Information & Communications Technology (ICT) enabled teaching methodologies and advanced technology are followed by the faculty members in class rooms.**
- **The academic calendar, lesson plan, and lab manuals are made available at the very beginning of the semester. Called it as a course file for each semester.**
- **The use of multimedia teaching aids like, LCD projectors, classrooms with internet enabled smart boards are usually in use in classrooms.**
- **The electronic resource packages like SWAYAM, NPTEL, COURSERA, SPOKEN TUTORIAL and Digital Library are available. The faculty members effectively utilize Audio Visual aids to demonstrate the concepts to the students using the resources to enhance the**

learning experience.

- Online tests are conducted and e-assignments are given through GOOGLE FORM.
- Sufficient number of books, Journals, e-journals and e-books are available in the library. The research journals are available online and facility for accessing these journals is provided through a proxy server on the campus.
- All the departments conduct seminars, workshops and guest lectures on the new developments in the core subjects for effective teaching and learning by the faculty members and students in each semester.
- Seminar hall is equipped with multimedia facilities using ICT tools. Invited talks and webinars are conducted in seminar hall using ICT facilities.
- GATE FORUM utilized ICT tools to prepare the students for GATE Exams.
- Virtual Laboratories are utilized for lab teaching in pandemic situations like COVID-19.
- Various IE activities are carried out by using ICT tools.
- MS Team is established to bring out online lectures and lab work in a pandemic situation.
- Smart class rooms are there to increase effectiveness in the teaching and learning process.
- Laboratories are equipped with ICT tools for smooth conduction of experiment, which is also utilized to increase research interest among the students as well as teachers.
- Well established and self-developed ERP system is there to provide effective service in admission to examination process.

File Description	Document
Any additional information	View Document
Provide link for webpage describing ICT enabled tools including online resources for effective teaching and learning process	View Document

2.3.3 Ratio of students to mentor for academic and other related issues (Data for the latest completed academic year)

Response: 34:1

2.3.3.1 Number of mentors

Response: 90	
File Description	Document
Upload year wise, number of students enrolled and full time teachers on roll	View Document
Circulars pertaining to assigning mentors to mentees	View Document
Any additional information	View Document

2.3.4 Preparation and adherence of Academic Calendar and Teaching plans by the institution

Response:

The academic calendar is prepared before the commencement of the semester. It is published on the Institute website and departmental as well as general notice boards for reference of the stakeholders. The academic calendar indicates schedule for significant events during the semester such as:

- Registration of Courses
- Commencement of classes
- First and second Mid semester examinations
- Remedial/Special Mid semester examinations
- End Semester Exam and its preparation time
- Result declaration
- Vacation
- Commencement of Next semester

The academic calendar is prepared to fulfil the required regular teaching hours as per the AICTE norms taking into the consideration for all the events within the term.

The events apart from the curricular activities, extra-curricular activities are also scheduled during the academic sessions. The dates for extra-curricular activities, Technical festivals – UDAAN, Sports carnival, Women’s Day Celebration, Annual Day, etc., are declared well in advance so that students can actively participate in such activities for their all-round development.

The teaching plans are prepared by the course coordinators of respective subjects. The teaching plan includes Macro planning and micro-planning.

- **Macro Planning:** It includes the weightage (in percentage) of the modules of the course along with the duration of the units in terms of lectures. It also mentions the evaluation scheme of

the subject falling in categories like continuous and end semester. Depending upon the subject the method for these evaluations is informed to the class upon commencement.

- **Micro Planning:** These documents indicate the status and planning of the ongoing semester and are maintained by respective course coordinators. By means of the micro planning the attainment of the course outcomes and completion in adherence to the academic calendar is monitored.

All new entrants begin their academic life in the institute with Bridge course/ Induction program meant for bridging the gap of school to college and familiarizing with the college environment.

File Description	Document
Upload Academic Calendar and Teaching plans for five years	View Document
Any additional information	View Document
Link for Additional Information	View Document

2.4 Teacher Profile and Quality

2.4.1 Average percentage of full time teachers against sanctioned posts during the last five years

Response: 77.92

File Description	Document
Year wise full time teachers and sanctioned posts for 5 years(Data Template)	View Document
List of the faculty members authenticated by the Head of HEI	View Document
Any additional information	View Document

2.4.2 Average percentage of full time teachers with Ph. D. / D.M. / M.Ch. / D.N.B Superspeciality / D.Sc. / D.Litt. during the last five years (consider only highest degree for count)

Response: 24.62

2.4.2.1 Number of full time teachers with *Ph.D./D.M/M.Ch./D.N.B Superspeciality/D.Sc./D’Lit.* year wise during the last five years

2019-20	2018-19	2017-18	2016-17	2015-16
52	42	39	32	34

File Description	Document
Institutional data in prescribed format (Data Template)	View Document
Any additional information	View Document

2.4.3 Average teaching experience of full time teachers in the same institution (Data for the latest completed academic year in number of years)

Response: 14.91

2.4.3.1 Total experience of full-time teachers

Response: 2415

File Description	Document
Institutional data in prescribed format	View Document
Any additional information	View Document

2.5 Evaluation Process and Reforms

2.5.1 Average number of days from the date of last semester-end/ year- end examination till the declaration of results year-wise during the last five years

Response: 35.8

2.5.1.1 Number of days from the date of last semester-end/ year- end examination till the declaration of results year wise during the last five years

2019-20	2018-19	2017-18	2016-17	2015-16
39	24	53	30	33

File Description	Document
Institutional data in prescribed format (Data Template)	View Document
Any additional information	View Document
Link for Additional Information	View Document

2.5.2 Average percentage of student complaints/grievances about evaluation against total number appeared in the examinations during the last five years

Response: 8.24

2.5.2.1 Number of complaints/grievances about evaluation year wise during the last five years

2019-20	2018-19	2017-18	2016-17	2015-16
224	336	397	247	46

File Description	Document
Number of complaints and total number of students appeared year wise	View Document
Any additional information	View Document

2.5.3 IT integration and reforms in the examination procedures and processes including Continuous Internal Assessment (CIA) have brought in considerable improvement in Examination Management System (EMS) of the Institution

Response:

Examination System:

General: The examinations system is based on the guidelines from AICTE/UGC. Since the inception of autonomous status in 2015, the academic council of the institute is in place and it forms rules and regulations required to ensure quality in the evaluation process.

Evaluation Scheme: The performance of student in each course is evaluated through (i) continuous assessment of theory, tutorial/practical work and/or (ii) end-semester theory, tutorial/practical examinations.

The end- semester theory examination in course has weightage of 70 percent of theory marks. The remaining 30 percent of theory marks is awarded through continuous assessment.

Two continuous assessments of theory (mid semester exams) are conducted. The average marks of two mid semester examinations are considered as the final marks. No student is allowed to appear in the end semester examination of a course unless he/ she scored at least 25% marks in mid semester examination and is considered as “Not Permitted To Appear (NPTA)” status for the respective course. The end-semester tutorial/practical examination in a course has a weightage of 60 percent of total tutorial/practical marks and continuous assessment carries the remaining 40 percent of total tutorial/practical marks. Tutorial/practical work is evaluated on the basis of several of the following parameters of assessment: observation of experimental skills, reports, quizzes, end semester practical examination.

Grading Procedure: The overall performance of a student in a course is assessed based on the aggregate of marks obtained in theory and practical components in continuous as well as end semester examination. However, a student should score minimum 30% marks in end semester examination to make himself/herself gradable. Examiner(s) can grace up to 10% of total marks of end semester theory examination in the marks obtained in end semester theory component to make a student gradable. However, grace marks are not to be counted in the aggregate of marks obtained by the student for the grading.

The Controller of Examinations in consultation with the Board of Studies appoints at least two examiners for end semester theory as well as practical/viva examination. For each end semester theory examination, there are two paper setters. One paper setter out of the two is from outside the institute. The end semester practical examination of each course is conducted by an internal and an external examiner. For 4th level courses, each end semester theory examination evaluation is done by an internal and an external examiners.

The ERP system at the office of Controller of Examinations prepares the histogram of each course for the purpose of grading. The convener of the respective course award grades based on the histogram. The Grade Review Committee review the grades awarded by the conveners.

Reassessment: For the end semester theory reassessment work, two examiners are appointed where one is Convener of original exam and other is new examiner. These examiners jointly reassess both the sections. The marks obtained by the candidate are considered for grading, only if, the change in marks is more than or equal to 10% of total marks of End Semester (Theory) Examination.

Award of Degree/Class: The performance of a student in a semester is expressed in terms of Semester Performance Index (SPI). The SPI is weighted average of course grade points obtained by a student in course taken in the semester. The weights assigned to course grade points are the credits carried by the respective courses.

The cumulative performance of students is expressed in terms of Cumulative Performance Index (CPI). This index is defined as weighted average of course grade points obtained by student for all courses taken since entry to the programme. To be eligible for the award of the degree of Bachelor of Technology/Master of Technology, a student must earn the total credits as prescribed under his/her programme of studies. The class awarded is decided by his/her final CPI.

Exam Reforms: For the entrants of Academic year 2018-19 onwards for B. Tech. and Academic year 2019-20 onwards for M. Tech./B. Tech (PDDC), the following reforms have been introduced.

- The end semester theory examination in course has a weightage of 60 % of total theory marks. Out of the remaining 40 % of theory marks, 30 % of marks are evaluated based on mid semester examination and remaining 10 % based on continuous assessment carried out during the semester as declared by the course coordinator.
- The end-semester tutorial/practical examination in a course has a weightage of 40 percent of total tutorial/practical marks and continuous assessment of the same carries the remaining 60 % of total tutorial/practical marks.
- No student shall be allowed to appear in the end semester examination of a course unless he/she has scored at least 35% marks in mid semester examination.
- Students must score a minimum 35% marks in end semester theory and tutorial/practical examination to make himself/ herself gradable.
- Any student who is not satisfied with the evaluation of end semester theory examination, has to

apply for review. The answer book(s) of the student(s) who has applied for the review is shown to him/her. If a student is satisfied with the assessment then he/she shall sign the answer book with a remark “Seen and Satisfied”. If a student is not satisfied with the assessment, then the re-evaluation process is carried out as per the procedure mentioned above.

Implementation of IT in Exam System: In the initial years of autonomy, the examination section was using an in-house developed Foxpro program for processing marks, preparation of histogram and generating results. Recently, the institute has established an ERP centre along with an in-house developed ERP software. The ERP software is capable of performing following tasks:

- Marks entry
- Processing of marks
- Automatic averaging of marks
- Applying cut off marks as per academic regulations
- Preparing histogram
- Generating grades
- Preparation of results

As the ERP software is developed in-house, it is convenient to customize it as per the changing needs based on academic regulations.

File Description	Document
Any additional information	View Document
Link for Additional Information	View Document

2.6 Student Performance and Learning Outcomes

2.6.1 Programme and course outcomes for all Programmes offered by the institution are stated and displayed on website and communicated to teachers and students.

Response:

National Board of Accreditation (NBA) has formulated Programme Outcomes (POs) in accordance with the Graduate Attributes designed by Washington Accord. These POs serve to define the quality of the prospective engineering graduates. In addition to the well-defined POs, based on the nature of the program, availability of various resources with the department, and its employability requirements, each program has its specific outcomes as well, called Program Specific Outcomes (PSOs). These 2 to 4 PSOs have been formulated by the department for its respective UG program. The process of defining PSOs includes the active participation of various stakeholders like, faculty members, alumni, industry experts, and employers.

About 4 to 6 Course Outcomes (COs) are defined for every course. These COs are direct statements that describe the essential knowledge, depth of learning, and skills the students should gain immediately after the successful completion of the course. While framing the COs, it is ensured that appropriate measurable Action Verbs (as per the Bloom’s Taxonomy) are used. Based on the action verbs involved in the

statements, each CO is mapped with one or more POs / PSOs. To depict the amount of mapping different correlation levels are used, viz., 3 for 'strong', 2 for 'moderate', 1 for 'weak' and '-' for no correlation.

The Vision and Mission of the institute was reframed through an exclusive two days conclave of faculty under the guidance of experts. Subsequently, each department also framed its own Vision and Mission statements that are in line with the statements of the institute. After that, each department forms a set of 3 to 5 Program Educational Objectives (PEOs) for each of the program offered by it. These are the statements that describe the expected behaviour and capabilities expected from a graduate of the program after 3 to 5 years of his / her graduation in the program. All of these statements, viz., COs, PSOs, and PEOs, are all approved by the respective Board of Studies (BoS) comprising of the faculty members of the department and external experts in consultation with the Industry Consultative Committee (ICC), which is further endorsed by the Academic Council.

The PEOs, PSOs along with COs of all the courses offered by various programs of the institute are displayed on the webpage of the respective department as well as the classrooms, laboratories, foyer, notice boards and other strategic locations in order to communicate to all stakeholders.

Awareness of POs, PSOs and COs are given to all students barring the first year students at the beginning of each semester by the faculties. The freshers are introduced to the same during their orientation program addressed by the Principal, Dean Academics, Heads of Departments and Controller of examinations.

The attainment levels of COs and POs/PSOs are determined at the end of every semester and the same are discussed and actions are taken to enhance the attainment levels.

File Description	Document
Upload COs for all courses (exemplars from Glossary)	View Document
Any additional information	View Document
Link for Additional Information	View Document

2.6.2 Attainment of programme outcomes and course outcomes are evaluated by the institution.

Response:

Curriculum design, assessment and evaluation are major tools by which Program Outcomes (POs) are attained. The assessment helps to evaluate the achievement of POs and evaluation process determines the extent to which POs, PSOs are achieved.

Mechanism:

For every course, the Course objectives and Course Outcome (CO) are framed; CO-PO articulation matrices are performed by the group of faculty members and then a summative approach is adopted to frame CO-PO matrices. The part of PO is embedded in CO, hence correlation is recorded. This correlation levels are "1" for low, "2" Medium, "3" for High and "-" indicative of no correlation. The course

objective, course outcome and CO-PO articulation matrices are discussed during the Departmental Academic Council (DAC) meeting and is finalised successively followed by Departmental Board of Studies (BOS) and finally the draft gets approval of Academic Council (AC).

There are four major evaluation components for a typical course that involves theory and laboratory components (CE-Theory, CE-Practical, ESE-Theory, and ESE-practical). The attainment levels of COs in course is determined directly through different assessment tools like, Mid/End Semester exams, assignments, quizzes, minor / major projects, etc.

The mid/end semester exam papers include the mention of the COs addressed by respective question along with the level of question as per the Bloom's taxonomy.

Attainment of CO is based on the formula and threshold limit decided at DAC. That may vary for Theory and Practical component for every department. This scale is multiplied with the weightage decided for the continuous evaluation.

For determining the attainment of CO, the DAC sets target- Say: Level 1: 50% of students scoring at least 50% marks to Level 3: 70% of students scoring 50% or more marks. The components CE (T), CE (P), ESE (T), ESE (P) are given particular weightage. (Say 20%, 30%, and 50% for CE-T, CE-P and ESE-(T&P) respectively) for direct assessment tools which comprises 80% of total Program attainments. While 20% of Program outcomes' attainment is measured through indirect assessment. (i.e., student exit survey and other feedbacks).

For each A.Y. the CO attainment is calculated level wise. The degree of achievement of each POs, PSOs is evaluated through Direct (80% weightage) and Indirect assessment (20% weightage) as decided in DAC.

As such the Institute has a practice of awarding relative grading, it is unanimously decided for "CC" grade as a threshold limit while calculating the CO-attainments in the End Sem. Exam.

Thus, course wise for each CO, attainment is tabulated on the scale of 1 to 3. Also every course has CO-PO articulation matrices and average of that.

The final formula used to evaluate PO attainment is:

$$(DPEM) = [(1/3)*(COA \times PAM)/m]$$

POs+PSOs Evaluation Matrix through direct assessment

COA: Course Outcome Attainment

PAM: Program Articulation Matrices

m: is the number of Cos.

DPEM: is a vector of size $1 \times n$ (Where n is number of POs+PSOs)

All attainment analysis is made to provide continuous improvement through either in course delivery, assessments and curriculum, which is the essence of the Outcome Based Education.

File Description	Document
Any additional information	View Document

2.6.3 Pass Percentage of students(Data for the latest completed academic year)

Response: 97.07

2.6.3.1 Total number of final year students who passed the examination conducted by Institution.

Response: 763

2.6.3.2 Total number of final year students who appeared for the examination conducted by the Institution.

Response: 786

File Description	Document
Upload List of Programmes and number of students passed and appeared in the final year examination(Data Template)	View Document
Any additional information	View Document
Link for the annual report	View Document

2.7 Student Satisfaction Survey

2.7.1 Online student satisfaction survey regarding teaching learning process

Response: 3.23

File Description	Document
Upload database of all currently enrolled students	View Document

Criterion 3 - Research, Innovations and Extension

3.1 Promotion of Research and Facilities

3.1.1 The institution Research facilities are frequently updated and there is well defined policy for promotion of research which is uploaded on the institutional website and implemented

Response:

Research is one of the key areas where the impetus is given nationally and internationally. In line with this, the BVM College has created required policies/ guidelines to encourage faculty members to research by providing fees of their Ph.D. program at university, seed money for their research projects, testing charges, research paper publication charges in reputed high indexed journals, charges for patent registration and publication along with publication or/and presentation of papers in International or National conferences in any part of India or abroad under the aegis of TEQIP by National Project Implementation Unit (NPIU). Institute also provides supporting facilities like computers, library, Internet, and reprography.

The total faculty strength is 162, among them, 56 have completed Ph.D. degrees from IITs under QIP program or reputed universities or institutions and all faculty have M. Tech/M. Phil/MBA degrees. Many faculty members' are guides or co-guides of research scholars and M.Tech. Students as well. There are 27 faculty members in the Departments of Civil, Structural, Mechanical, Production, Computer, Electronics, Information & Technology, Electronics & Communication pursuing Ph.D. in different Universities. Many teachers have published books, articles, research papers, abstracts, etc., and have presented papers in various International, National, and State level Conferences. Many senior faculty members have completed training in IIMs (Management Capacity Enhancement) and IITs (Pedagogical). The average teaching experience of faculty is about 17 years. The junior faculty members are motivated and trained for quality research in their respective fields. Publication of research papers, articles, books, and creative writing by faculty members is commendable.

The academic autonomy provides flexibility to strengthen Graduate and Postgraduate Programs aligned with outreach educational experience and financial resources that are redeeming features for the realization of the programs of research and advanced studies. The M.Tech program stipulates paper publication as a mandatory requirement to train the students on research and publication. M.Tech projects are by and large the real-life problems of industries to ensure the usefulness of the outcome of the research. BVM College has incorporated many subjects designed by academic and industry experts in the context of contemporary innovative trends.

The college offers consultancy services in the fields of Environment, infrastructure, cement testing, meter testing, and many more. Also, the college has a well-established Alumni network, spread over the globe, with more than 10,000 members who directly or indirectly support research and academic activities. The Institute has the Student Start-up & Innovation Policy (SSIP) center of the Government of Gujarat, under this scheme, any individual/ group of individuals having innovative ideas/ concepts are eligible for the grant. To strengthen the research activities, the institute has signed MOU with about 80 industries and 8 foreign universities. Moreover, the institute has established 4 centers of excellence to promote research and development activities. Computing facilities in the context of research are augmented with the addition of Super Computer 'PARAM SHAVAK'. Faculty members are involved in research projects funded by various agencies like AICTE, GUJCOST, and DST.

File Description	Document
Minutes of the Governing Council/ Syndicate/Board of Management related to research promotion policy adoption	View Document
URL of Policy document on promotion of research uploaded on website	View Document

3.1.2 The institution provides seed money to its teachers for research (average per year, INR in Lakhs)

Response: 0

3.1.2.1 The amount of seed money provided by institution to its faculty year-wise during the last five years (INR in lakhs).

2019-20	2018-19	2017-18	2016-17	2015-16
0	0	0	0	0

File Description	Document
List of teachers receiving grant and details of grant received	View Document

3.1.3 Percentage of teachers awarded national / international fellowship for advanced studies/research during the last five years

Response: 0.25

3.1.3.1 The number of teachers awarded national / international fellowship for advanced studies / research year wise during last five years

2019-20	2018-19	2017-18	2016-17	2015-16
0	1	0	1	0

File Description	Document
List of teachers and their international fellowship details	View Document
e-copies of the award letters of the teachers	View Document

3.2 Resource Mobilization for Research

3.2.1 Grants received from Government and non-governmental agencies for research projects, endowments, Chairs in the institution during the last five years (INR in Lakhs)

Response: 142.48

3.2.1.1 Total Grants from Government and non-governmental agencies for research projects, endowments, Chairs in the institution during the last five years (INR in Lakhs)

2019-20	2018-19	2017-18	2016-17	2015-16
66.84	38.30	4.92	4.40	28.015

File Description

Document

List of project and grant details

[View Document](#)

e-copies of the grant award letters for research projects sponsored by government and non-government

[View Document](#)

3.2.2 Percentage of teachers having research projects during the last five years

Response: 4.7

3.2.2.1 Number of teachers having research projects during the last five years

2019-20	2018-19	2017-18	2016-17	2015-16
13	07	06	05	07

File Description

Document

Names of teachers having research projects

[View Document](#)

3.2.3 Percentage of teachers recognised as research guides

Response: 17.9

3.2.3.1 Number of teachers recognized as research guides

Response: 29

File Description	Document
Upload copies of the letter of the university recognizing faculty as research guides	View Document
Any additional information	View Document

3.2.4 Average percentage of departments having Research projects funded by government and non-government agencies during the last five years

Response: 33.33

3.2.4.1 Number of departments having Research projects funded by government and non-government agencies during the last five years

2019-20	2018-19	2017-18	2016-17	2015-16
03	02	03	03	04

3.2.4.2 Number of departments offering academic programmes

2019-20	2018-19	2017-18	2016-17	2015-16
9	9	9	9	9

File Description	Document
Supporting document from Funding Agency	View Document
List of research projects and funding details	View Document
Paste link to funding agency website	View Document

3.3 Innovation Ecosystem

3.3.1 Institution has created an eco system for innovations, creation and transfer of knowledge supported by dedicated centers for research, entrepreneurship, community orientation, Incubation etc.

Response:

The Academic Autonomy awarded to BVM has played a major role in improving the ecosystem prevailed to a more conducive one in the context of innovations, creation, and transfer of knowledge. Very strong support of our Alumni Association with more than 10000 members, both material and otherwise, is

noteworthy to mention at this juncture. The global presence of the BVM diaspora could be used effectively to further enhance the prevailing ecosystem. The syllabi have been prepared to keep innovation in mind and the teaching-learning process is planned and executed in accordance with the same. Creativity is encouraged in all aspects and our SSIP center is a glaring example of the same.

BVM College has received fund of rupees 1 crores for the Student Start-up & Innovation Policy (SSIP) center of the Government of Gujarat. Under this scheme, any individual/ group of individuals having innovative ideas/ concepts are eligible and/ or Universities/ education institutions, Incubation Centre/ PSUs/ R&D Institutions.

The institute has built cross-organizational networks. MOU with many reputed universities and industrial houses have been signed.

The management encourages the students to have a diversity of thoughts and their focus is on goal-based thinking. A platform for patents has been provided and good works are now patented. All the laboratories are open for research-related work, and a proper environment has been created in terms of man and machine. Digital data availability and the use of networks linked with education have created the right impact.

The students and faculty are benefiting the facilities within the campus to carry out their research activities, such as;

- Wi-Fi throughout the campus
- An Internet facility of 100 Mbps is available to students and staff.
- A computing facility is available and adequate licensed software is also available.
- Well-furnished Seminar/Auditorium halls with a seating capacity of over 200/300 audience are available to conduct seminars/workshops, guest lectures, and discussions on technical paper/project presentations, cultural and screening of informative educational movies.
- Remote access of SCOPUS on the campus
- IRINS Portal for faculty profiles and research activities
- ELARC: Research Lab for Antenna Testing
- Well-equipped Skill lab for languages like English and French.
- A unique Recording Studio for recording eminent personalities.
- A centre of Excellence LAB “ SLS”: Nebulae Luminous (IoT Infrastructure)
- A unique Acharya Anusandhan Kendra [????? ?????????? ????????? ??????], by SATT Engineering Ltd
- Smart Classroom with smart board and projectors
- Supercomputers PARAM SHAVAK
- BVM Innovation & Entrepreneurship Cell (BIEC) for SSIP
- PhD center of Gujarat Technological University for enhancing research facilities at Birla Vishvakarma Mahavidyalaya
- Laboratories with latest equipment and software.
- A remote access facility to access all e resources (e-journal packages like IEEE, ASME, ASCE and e-books) from any place.

File Description	Document
Upload any additional information	View Document
Paste link for additional information	View Document

3.3.2 Number of workshops/seminars conducted on Research methodology, Intellectual Property Rights (IPR), entrepreneurship, skill development during the last five years.

Response: 99

3.3.2.1 Total number of workshops/seminars conducted on Research methodology, Intellectual Property Rights (IPR), entrepreneurship, skill development year-wise during the last five years.

2019-20	2018-19	2017-18	2016-17	2015-16
38	15	19	17	10

File Description	Document
Report of the event	View Document
List of workshops/seminars during last 5 years	View Document

3.4 Research Publications and Awards

3.4.1 The Institution ensures implementation of its stated Code of Ethics for research through the following: 1. Inclusion of research ethics in the research methodology course work 2. Presence of Ethics committee 3. Plagiarism check through software 4. Research Advisory Committee

Response: A. All of the above

File Description	Document
Any additional information	View Document
Link for additional information	View Document

3.4.2 Number of Ph.D's registered per teacher (as per the data given w.r.t recognized Ph.D guides/supervisors provided at 3.2.3 metric) during the last five years

Response: 4.85

3.4.2.1 How many Ph.Ds are registered within last 5 years

Response: 63

3.4.2.2 Number of teachers recognized as guides during the last five years

Response: 13

File Description	Document
List of PhD scholars and their details like name of the guide , title of thesis, year of award etc	View Document
URL to the research page on HEI web site	View Document

3.4.3 Number of research papers per teachers in the Journals notified on UGC website during the last five years

Response: 1.05

3.4.3.1 Number of research papers in the Journals notified on UGC website during the last five years

2019-20	2018-19	2017-18	2016-17	2015-16
67	57	16	25	4

File Description	Document
List of research papers by title, author, department, name and year of publication	View Document
Any additional information	View Document

3.4.4 Number of books and chapters in edited volumes / books published per teacher during the last five years

Response: 1.37

3.4.4.1 Total number of books and chapters in edited volumes/books published and papers in national/ international conference proceedings year-wise during last five years

2019-20	2018-19	2017-18	2016-17	2015-16
24	7	71	89	31

File Description	Document
List books and chapters in edited volumes / books published	View Document
Any additional information	View Document

3.4.5 Bibliometrics of the publications during the last five years based on average citation index in Scopus/ Web of Science or PubMed

Response: 6.15

File Description	Document
Bibliometrics of the publications during the last five years	View Document

3.4.6 Bibliometrics of the publications during the last five years based on Scopus/ Web of Science - h-index of the Institution

Response: 12

File Description	Document
Bibliometrics of publications based on Scopus/ Web of Science - h-index of the Institution	View Document

3.5 Consultancy

3.5.1 Revenue generated from consultancy and corporate training during the last five years (INR in Lakhs).

Response: 235.54

3.5.1.1 Total amount generated from consultancy and corporate training year-wise during the last five years (INR in lakhs).

2019-20	2018-19	2017-18	2016-17	2015-16
64.57	80.15	82.37	0	8.45

File Description	Document
List of consultants and revenue generated by them	View Document
Audited statements of accounts indicating the revenue generated through consultancy and corporate training	View Document
Any additional information	View Document

3.5.2 Total amount spent on developing facilities, training teachers and staff for undertaking consultancy during the last five years (INR in Lakhs).

Response: 104.06

3.5.2.1 Total amount spent on developing facilities, training teachers and staff for undertaking consultancy during the last five years (INR in Lakhs)

2019-20	2018-19	2017-18	2016-17	2015-16
39.88	11.738	2.18	27.73	22.529

File Description	Document
List of facilities and staff available for undertaking consultancy	View Document
Audited statements of accounts indicating the expenditure incurred on developing facilities and training teachers and staff for undertaking consultancy	View Document

3.6 Extension Activities

3.6.1 Extension activities are carried out in the neighbourhood community, sensitising students to social issues, for their holistic development, and impact thereof during the last five years

Response:

The architects of BVM have planned it as a rural institute to cater to rural needs. Keeping the vision of our Founders in mind, BVM has adopted some villages in its neighborhood and rendered significant service for their development under the Gujarat Government Scheme "Vishvakarma Yojana" by the Government of Gujarat. Institute actively promotes extension services responsive to community needs. The college has designated a faculty member to be in charge of extension and placement activities. Extension activities are undertaken through various clubs, societies, NCC, and NSS in collaboration with NGOs and GOs. Various extension and awareness programs are being regularly conducted by the BVM college against health and

hygiene awareness campaigns, medical camps, adult education, expert lectures from Swami from Axar Purshottam Chhatralaya, Brahmkumari for motivation and holistic approach towards life and overall development of students and literacy programs, blood donation camps, environment awareness drives, tree plantations, fire safety, family life education, national and local emergency relief work, EVM Machine demonstration in nearby villages, Know-How the program, women empowerment, entrepreneurial development programs, personality development, and leadership training. The institution also organizes induction programs for first-year students regularly, under which the students and their faculty mentor visit nearby villages and industries. Many students of BVM college are actively involved in the NGO, named BACHHPAN, under which they are taking active measures to change to uplift the downtrodden people, addressing issues like Child-Labour and Education and take Small and Effective steps in helping children to shape their future. Students are encouraged to participate in them and as a token of appreciation, they are provided with certificates. The NCC is very active in our college as there are three wings of NCC-Army, Air, and Navy. Our Cadets are to participate in the Republic Day parade held in Delhi. One of our cadets was selected as Commander at the Prime Minister's Rally in 2000. Many NCC cadets have excelled at state and national levels activities, B or C certificate examinations

Such activates and the involvement of students could not only expose them to the real environments around us, making them aware of their social responsibilities. Such opportunities culminate into their holistic development, which hopefully makes them better citizens of our nation.

File Description	Document
Upload Any additional information	View Document

3.6.2 Number of awards and recognition received by the Institution, its teachers and students for extension activities from Government / Government recognised bodies during last five years

Response: 29

3.6.2.1 Total number of awards and recognition received for extension activities from Government/ Government recognised bodies year-wise during the last five years.

2019-20	2018-19	2017-18	2016-17	2015-16
11	8	7	1	2

File Description	Document
Number of awards for extension activities in last 5 year	View Document
e-copy of the award letters	View Document

3.6.3 Number of extension and outreach programs conducted by the institution through

NSS/NCC/Red cross/YRC etc., during the last five years (including Government initiated programs such as Swachh Bharat, Aids Awareness, Gender Issue, etc. and those organised in collaboration with industry, community and NGOs)

Response: 66

3.6.3.1 Number of extension and outreach Programs conducted in collaboration with industry, community and Non- Government Organizations through NSS/ NCC/ Red Cross/ YRC etc., year-wise during the last five years

2019-20	2018-19	2017-18	2016-17	2015-16
20	10	16	11	9

File Description	Document
Reports of the event organized	View Document
Number of extension and outreach Programmes conducted with industry, community etc for the last five years	View Document

3.6.4 Average percentage of students participating in extension activities listed at 3.6.3 above during the last five years

Response: 34.48

3.6.4.1 Total number of students participating in extension activities listed at 3.6.3 above year-wise during the last five years.

2019-20	2018-19	2017-18	2016-17	2015-16
668	1744	1050	1083	775

File Description	Document
Reports of the event	View Document
Average percentage of students participating in extension activities with Govt or NGO etc	View Document

3.7 Collaboration

3.7.1 Number of Collaborative activities per year for research/ faculty exchange/ student exchange/ internship/ on –the-job training/ project work

Response: 42.6

3.7.1.1 Total number of Collaborative activities per year for research/ faculty exchange/ student exchange/ internship/ on –the-job training/ project work

2019-20	2018-19	2017-18	2016-17	2015-16
52	68	30	46	17

File Description	Document
Number of Collaborative activities for research, faculty etc	View Document
Copies of collaboration	View Document

3.7.2 Number of functional MoUs with institutions of national, international importance, other institutions, industries, corporate houses etc. during the last five years (only functional MoUs with ongoing activities to be considered)

Response: 31

3.7.2.1 Number of functional MoUs with institutions of national, international importance, other Institutions, industries, corporate houses etc. year wise during last five years

2019-20	2018-19	2017-18	2016-17	2015-16
5	6	10	6	4

File Description	Document
e-copies of the MoUs with institution/ industry/ corporate house	View Document
Details of functional MoUs with institutions of national, international importance, other Institutions etc during the last five years	View Document

Criterion 4 - Infrastructure and Learning Resources

4.1 Physical Facilities

4.1.1 The Institution has adequate infrastructure and physical facilities for teaching- learning. viz., classrooms, laboratories, computing equipment etc.

Response:

The BVM campus is spread over 18.96 acres including a ground having play space for football, basketball, cricket, indoor stadium, stage, etc.

The BVM has excellent infrastructure facilities like classrooms, tutorial rooms, laboratories, drawing halls, workshops, libraries, faculty rooms, conference/ seminar halls, auditorium, Learning Resource Utilization Centre (LRUC), administrative block and canteen.

Classroom of UG & PG (48), drawing halls (5), library (1), seminar halls (6), tutorial rooms (8) and studio (1) space cover 5728.27 sq mt.

8672.21sqmt of space is allocated for laboratories of UG & PG (95), computer centre (1), workshop (1) and Tinkering labs (1).

Principal room (1), HOD cabin (10), faculty cabin (118), academic section (dean academic, COE, student's counselor) (1), reception (1), examination office (1), board room (1) and store room (15) space cover 2444.27sqmt.

The institute also has Alumni office (1), Boy's common room (1), girl's common room (1), toilet blocks (28), canteen (1), sport club & gym (1), Maintenance Room (1), Housekeeping (1), Security (1), First Aid & Medical Room (1) covering 1294.29sqmt.

In the library, No. of Titles, No. of volumes, National Journals, International Journals, E-books (on perpetual basis) available are 12110, 68256, 94, 11 and 288 respectively. Also, the Reprographic Facility, digital library and reading room facilities are available. The RFID system is there to facilitate ease of work for students and staff. Facilities for viewing e-content, subscribed and available from NPTEL/SWAYAM etc, can be accessed in the digital library. DELNET and E-Journals such as ASME ASCE and IEEE are subscribed every year. Also a book bank facility is there for needy students.

The No. of computers, printers, legal system softwares and legal application software available are 1057, 124, 8 and 75. The total Internet Bandwidth available is 100 mbps and NAMO Wi-Fi 100Mbps. Also, there are 67 secured Wi-Fi connectivity access points. The campus has complete Wi-Fi Connectivity. Internet & Intranet facility available in Departments and Hostels.

The Health Care Centre run by the management is available very close to the campus.

Dedicated space is allocated for Centers of Excellences, SSIP & incubation centre and training & placement centre.

File Description	Document
Upload Any additional information	View Document

4.1.2 The institution has adequate facilities for cultural activities, yoga, games (indoor, outdoor) and sports. (gymnasium, yoga centre, auditorium, etc.)

Response:

Cultural & sports activities are part and partial of BVM Engineering college, since inception. They are intended to nurture talents of students in both cultural as well as sports and games. These opportunities are taken by the students to enhance social, physical and mental well-being as well as leadership qualities.

Facilities for outdoor activities like basketball court, Badminton courts, Volleyball, cricket, hockey, Kho-Kho, Kabaddi and handball are available.

Indoor sports complex having facility for indoor activities like badminton courts, table tennis, billiards tables, gymnasium, yoga centre is available.

Cultural activities: where in BVM has earned many accolades include Dance, Music, Fine arts, Literary and theatre etc. Cultural activities are managed by the Cultural committee. They have won prizes in competitions like Kala Mahakumbh, XITIJ –zonals, XITIJ-Interzonals, Amul Volcano.

Sports activities at the institute are being managed under the guidance of faculty in-charges and student's coordinators. BVM students are active in sports and games as well.

File Description	Document
Geotagged pictures	View Document

4.1.3 Percentage of classrooms and seminar halls with ICT- enabled facilities such as smart class, LMS, etc. (Data for the latest completed academic year)

Response: 88.33

4.1.3.1 Number of classrooms and seminar halls with ICT facilities

Response: 53

File Description	Document
Upload any additional information	View Document
Institutional data in prescribed format	View Document

4.1.4 Average percentage of expenditure for infrastructure augmentation excluding salary during the last five years (INR in Lakhs)

Response: 18.02

4.1.4.1 Expenditure for infrastructure augmentation, excluding salary year-wise during last five years (INR in lakhs)

2019-20	2018-19	2017-18	2016-17	2015-16
12.99	328.35	238.49	2.42	47.36

File Description	Document
Upload Details of Expenditure , excluding salary during the last five years	View Document
Upload audited utilization statements	View Document
Upload any additional information	View Document

4.2 Library as a Learning Resource

4.2.1 Library is automated using Integrated Library Management System (ILMS)

Response:

Integrated Library Management System (ILMS)

Library is fully automated using RFID (Radio Frequency Identification) systems. Students and staff can access the books, periodicals, journals through issue and return process themselves. The library has a rich collection of more than 50000 books on various subjects.

In addition to this, 110 National and International printed journals are there on various subjects.

All the books have been classified and arranged on open shelves. Books are arranged subject-wise for easy access and quick retrieval through proper labeling on racks

There is a huge collection of books in the reference section on various subjects including Vedas, General knowledge, competitive exams, spiritual, inspirational and motivational sections.

Apart from the central library, the department libraries of all branches provide easy access at department levels.

Book bank facility is also developed to provide sets of books for all semesters to the needy students upon demand.

The library resources are completely barcoded and automated using RFID system and SOUL software, which helps in transactions, OPAC (Online Public Access of Catalogues) and reservations of books for all users.

LRUC (Library resource utilization center) is fully equipped to manage various activities. Air-conditioned reading room with internet facility is provided to the students for comfortable study.

File Description	Document
Upload any additional information	View Document

4.2.2 Institution has access to the following: 1. e-journals 2. e-ShodhSindhu 3. Shodhganga Membership 4. e-books 5. Databases 6. Remote access to e-resources

Response: A. Any 4 or more of the above

File Description	Document
Institutional data in prescribed format	View Document
Details of subscriptions like e-journals, e-books , e-ShodhSindhu, Shodhganga Membership etc	View Document

4.2.3 Average annual expenditure for purchase of books/ e-books and subscription to journals/e-journals during the last five years (INR in Lakhs)

Response: 29.26

4.2.3.1 Annual expenditure of purchase of books/e-books and subscription to journals/e- journals year wise during last five years (INR in Lakhs)

2019-20	2018-19	2017-18	2016-17	2015-16
44.52	21.55	24.55	25.69	29.97

File Description	Document
Details of annual expenditure for purchase of and subscription to journals/e-journals during the last five years	View Document
Audited statements of accounts	View Document

4.2.4 Percentage per day usage of library by teachers and students (foot falls and login data for online access) during the last completed academic year

Response: 10.94

4.2.4.1 Number of teachers and students using library per day over last one year

Response: 350

File Description	Document
Details of library usage by teachers and students	View Document

4.3 IT Infrastructure

4.3.1 Institution has an IT policy covering wi-fi, cyber security, etc., and allocated budget for updating its IT facilities

Response:

The IT policies and facilities available in the institute is summarized as follows:

As a policy of the institute, desktops/laptops are provided with the LAN facility. The wi-fi facilities is free for the faculties and students. However, both the faculties and students who are interested to have wi-fi, need to apply through wi-fi registration form, to be submitted to the IT Center. Students are permitted to access wi-fi only through laptop.

LAN-Facility

There are two managed switches of 16 Layer and 34 data network switches connected through 6 core

fiber from the main server room to each block separately. There are 5 POE network switches and 14 data network switches for access points and point to point wireless connectivity in entire campus and Hostel. There is a Mikrotik Router switch and 1 Layer 3 Switch for firewall and managing of internet, intranet, CCTV cameras and content filtering for 2000 users simultaneously. 100 Mbps of internet connectivity is shared across the campus.

Server configurations:

There are 5 Tower servers with Intel Xeon E5-2609 version-2, 16 GB RAM, 1.8 TB hard drive, which serve as Web server, ERP central data server, NPTEL Tutorials server, SOUL and RFID server for library, and application servers. Institute has a super computer: PARAM SAVAK funded by GUJCOST for research activities.

Three back up device of 4TB is available for server back up.

Work station:

1057 desktops are provided to all the departments' labs as well as with staff members of respective departments with LAN connectivity and 54 Laptops with minimum configuration of core i3 5th Generation 4GB DDR3 RAM and 500GB hard disk to carry out academic and administrative work.

Software:

Institute has Microsoft Campus license which includes over forty five products of Microsoft like OS, development tool, designing tools applications, etc. Institute uses open source operating systems such as Fedora, Ubuntu and CentOS. All windows systems are protected with ESET antivirus. Institute has two Institute level license softwares while there are forty three Licensed Application Software for particular departmental purposes and thirty freeware software.

Printers :

There are 124 Printers and scanners across the campus for academic and administrative purposes.

Updates and up-gradation:

Updates are maintained regularly through the Internet, servers and anti-viruses are updated through Server. Computer write-off process is also done frequently in the campus to update the computer infrastructure. Till now 309 Computers with Pentium 4 and Dual Core were written- off. Institute upgrades software periodically as per the respective software license policy.

Wi-Fi:

67 Extendable Wi-Fi access points are placed at various places like Library, corridors, Labs, hostel, Canteen and outdoor. Wi-Fi access is monitored and controlled by Mikrotik hotspot firewall at the IT Center for secure content access. All access points are routed to a Wi-Fi controller in the IT Center where configuration and updates are maintained in a centralized fashion. Gujarat Government has also sponsored NAMO Wi-Fi facility of 100Mbps with seven access points to prompt digital education development network.

File Description	Document
Upload any additional information	View Document

4.3.2 Student - Computer ratio (Data for the latest completed academic year)

Response: 3:1

File Description	Document
Upload any additional information	View Document
Student - computer ratio	View Document

4.3.3 Bandwidth of internet connection in the Institution.

Response: 750 MBPS

File Description	Document
Upload any additional information	View Document
Details of available bandwidth of internet connection in the Institution	View Document

4.3.4 Institution has the following Facilities for e-content development

1. Media centre
2. Audio visual centre
3. Lecture Capturing System(LCS)
4. Mixing equipments and softwares for editing

Response: B. 3 of the above

File Description	Document
Upload Additional information	View Document
Institutional data in prescribed format	View Document

4.4 Maintenance of Campus Infrastructure

4.4.1 Average percentage expenditure incurred on maintenance of physical facilities and academic support facilities excluding salary component during the last five years

Response: 3.64

4.4.1.1 Expenditure incurred on maintenance of physical facilities and academic support facilities excluding salary component year wise during the last five years (INR in lakhs)

2019-20	2018-19	2017-18	2016-17	2015-16
31.71	50.65	11.92	21.88	12.52

File Description	Document
Upload any additional information	View Document
Details about assigned budget and expenditure on physical facilities and academic facilities	View Document
Audited statements of accounts	View Document

4.4.2 There are established systems and procedures for maintaining and utilizing physical, academic and support facilities - laboratory, library, sports complex, computers, classrooms etc.

Response:

The maintenance activities are carried out under the guidance of the infrastructure planning and support committee in order to ensure availability of infrastructure essential for academic and non-academic activities.

The activities carried out by the committee include maintenance of the water supply system, sewerage disposal, solid waste disposal, chemical waste disposal, building repair and maintenance, equipment maintenance, electrical maintenance, etc.

Regarding the sewage disposal system, the under-ground sewerage network of BVM is connected to Vallabh Vidyanagar municipality manhole outside of the campus.

A potable water supply system is available in all buildings of the institute. The water supply system incorporates overhead water tanks (4 lacs litre capacity), borewell, RO systems and UV systems. To maintain green campus water supply is provided from the overhead water tank. Recharging wells and rainwater harvesting systems are also available on campus.

Fire extinguishers are kept at all critical locations in ready to use conditions to meet any eventuality.

To take care of power outages, the institute has well maintained electrical power supply backup of 125 KVA. Maintenance of the same is carried out by the Electrical department.

Campus is under CCTV surveillance cameras placed at critical locations to prevent unwanted activities and ensure discipline.

Vehicle parking areas are provided building wise to meet the parking requirement. Area allocated for the same is about 5151.30 sqmt.

E-waste is disposed from the campus through a vendor as per the norms of e-waste management and handling, carried out through the parent management.

Funds are allocated annually for the repair and maintenance of equipment, computers, instruments and other facilities.

Infrastructure maintenance has a separate budget. General insurance cover is provided to buildings, furniture, equipment and computers. Annual Maintenance Contract (AMC) is awarded for infrastructure maintenance, lift, RO/UV system and fire extinguishers.

Roof top solar panel of 105 KVA is installed to augment the efforts to create green infrastructure.

Air conditioners of the institute are being repaired and maintained by the mechanical department under the guidance of a faculty in-charge.

Repair and maintenance of computers and campus wide networking, both wired and wireless, are managed by the IT department.

File Description	Document
Upload any additional information	View Document

NAAC

Criterion 5 - Student Support and Progression

5.1 Student Support

5.1.1 Average percentage of students benefited by scholarships and freeships provided by the Government during last five years

Response: 30.03

5.1.1.1 Number of students benefited by scholarships and freeships provided by the Government year-wise during last five years

2019-20	2018-19	2017-18	2016-17	2015-16
1141	1117	974	773	628

File Description

Document

upload self attested letter with the list of students sanctioned scholarships

[View Document](#)

Institutional data in prescribed format

[View Document](#)

Average percentage of students benefited by scholarships and freeships provided by the Government during the last five years

[View Document](#)

5.1.2 Average percentage of students benefited by scholarships, freeships, etc. provided by the institution and non-government agencies during the last five years

Response: 5.02

5.1.2.1 Total number of students benefited by scholarships, freeships, etc provided by the institution / non- government agencies year-wise during last five years

2019-20	2018-19	2017-18	2016-17	2015-16
182	159	158	161	116

File Description	Document
Upload any additional information	View Document
Number of students benefited by scholarships and freships besides government schemes in last 5 years	View Document
Institutional data in prescribed format	View Document

5.1.3 Following Capacity development and skills enhancement activities are organised for improving students capability 1. Soft skills 2. Language and communication skills 3. Life skills (Yoga, physical fitness, health and hygiene) 4. Awareness of trends in technology

Response: A. All of the above

File Description	Document
Details of capability enhancement and development schemes	View Document
Link to Institutional website	View Document

5.1.4 Average percentage of students benefited by career counseling and guidance for competitive examinations offered by the Institution during the last five years.

Response: 31.84

5.1.4.1 Number of students benefitted by guidance for competitive examinations and career counselling offered by the institution year wise during last five years

2019-20	2018-19	2017-18	2016-17	2015-16
1221	1538	1820	60	262

File Description	Document
Number of students benefited by guidance for competitive examinations and career counselling during the last five years	View Document

5.1.5 The institution adopts the following for redressal of student grievances including sexual harassment and ragging cases 1. Implementation of guidelines of statutory/regulatory bodies 2. Organisation wide awareness and undertakings on policies with zero tolerance 3. Mechanisms for submission of online/offline students' grievances 4. Timely redressal of the grievances through appropriate committees

Response: B. 3 of the above

File Description	Document
Upload any additional information	View Document
Minutes of the meetings of student redressal committee, prevention of sexual harassment committee and Anti Ragging committee	View Document

5.2 Student Progression

5.2.1 Average percentage of placement of outgoing students during the last five years

Response: 25.31

5.2.1.1 Number of outgoing students placed year - wise during the last five years.

2019-20	2018-19	2017-18	2016-17	2015-16
164	180	207	233	268

File Description	Document
Upload any additional information	View Document
Self attested list of students placed	View Document
Details of student placement during the last five years	View Document

5.2.2 Percentage of student progression to higher education (previous graduating batch).

Response: 3.56

5.2.2.1 Number of outgoing student progressing to higher education.

Response: 28

File Description	Document
Upload supporting data for student/alumni	View Document
Details of student progression to higher education	View Document

5.2.3 Average percentage of students qualifying in state/national/ international level examinations during the last five years (eg: IIT-JAM/CLAT/ NET/SLET/GATE/ GMAT/CAT/GRE/ TOEFL/

Civil Services/State government examinations, etc.)

Response: 30.66

5.2.3.1 Number of students qualifying in state/ national/ international level examinations (eg: IIT/JAM/ NET/ SLET/ GATE/ GMAT/CAT/GRE/ TOEFL/ Civil Services/ State government examinations, etc.)) year-wise during last five years

2019-20	2018-19	2017-18	2016-17	2015-16
75	129	105	86	31

5.2.3.2 Number of students appearing in state/ national/ international level examinations (eg: IIT/JAM/ NET / SLET/ GATE/ GMAT/CAT,GRE/ TOEFL/ Civil Services/ State government examinations) year-wise during last five years

2019-20	2018-19	2017-18	2016-17	2015-16
277	311	342	227	192

File Description	Document
Upload supporting data for student/alumni	View Document
Number of students qualifying in state/ national/ international level examinations during the last five years	View Document

5.3 Student Participation and Activities

5.3.1 Number of awards/medals won by students for outstanding performance in sports/cultural activities at inter-university/state/national / international level (award for a team event should be counted as one) during the last five years.

Response: 214

5.3.1.1 Number of awards/medals won by students for outstanding performance in sports / cultural activities at inter-university / state / national / international events (award for a team event should be counted as one) year - wise during the last five years.

2019-20	2018-19	2017-18	2016-17	2015-16
71	28	29	36	50

File Description	Document
Number of awards/medals for outstanding performance in sports/ cultural activities at inter-university / state / national / international level during the last five years	View Document
e-copies of award letters and certificates	View Document
Any additional information	View Document

5.3.2 Presence of an active Student Council & representation of students on academic & administrative bodies/committees of the institution

Response:

BVM is having strong student's council and excellent representation of the students on academic and Administrative bodies in the institution.

Institution has established BVM Central Committee (BVM CC) under which most of the activities carried throughout the year, appropriate platform is provided to all the interested students under 4 broader categories

1. Literary and Publication
2. Cultural Activities
3. Sports Activities
4. Technical activities

Students are encourage to participate in various types of academic, co-curricular and extra-curricular activities at local (Campus), State, National and International level.

BVM Central Committee works under the guidance of Faculty Council members (Ex-officio staff members). Student's Council consists of the various posts, like viz. General Secretary, Ladies Representative, Cultural Secretary, Technical Secretary, Sports Secretary, NSS/NCC convener are few of them. The student's representatives are regularly conducting various technical, cultural, sports and literary activities according to the academic calendar.

The college provides the strong platform to the students to excel in co-curricular, extra-curricular campus activities, through various Student Forum/Chapters/Clubs like viz. IE(I) Student Chapter in each branch, ISTE Chapter, IEEE Chapter, ROBOTICS Club, Cultural club, Sports Club, Industry Institute Interaction Cell, Innovation-Incubation Centre, SSIP & TPC Cell etc. Through the year numerous events: Technical, Cultural, Sports, and BVM College's own Tech-Cult-Fest "UDAAN" were organized by the students and managed by the student's committees. Students are the part of various committees and social activities to be carried out under the banner of NSS, NCC, Women Cell, Minority Cell, BACHPAN (It's a special program of providing evening education to deprived students of society by students of BVM & other institutes.)

BVM organizes the exclusive technical programmes like Poster Presentation Competition to recognise the

'Project Work' of final year students and awarding them at III-level. Best three projects awards are given in each discipline every year. UDAAN-A Technical & Cultural Festival is organized every year to inculcate the culture of Innovation, start-up and thinking out of box with competitive environment by inviting the students of other technical institutes of state and nation. The National Symposium, Technical Experts Talk, International Conferences are regularly evented to inculcate the industry readiness amongst the students.

BVM Central Committee actively involve during the orientation of the newly entered student by guiding newcomers about various activities that they can get involve. Every year BVM CC and BVM Alumni Association jointly organize fresher's welcome function and Farewell function to bid the farewell to the final year students.

BVM CC and NSS is regularly organising Blood donation camp 3 to 4 times per year, nearby Red Cross society and Krishna hospital are collecting the blood. BVM CC and NSS is also taking care of nurturing the existing plants and adding new plants especially on Republic day and Independence Day.

BVM CC is also organising Thalassemia testing camp, health awareness workshop on regular basis for the students and faculty members.

File Description	Document
Upload any additional information	View Document

5.3.3 Average number of sports and cultural events / competitions organised by the institution per year

Response: 13.8

5.3.3.1 Number of sports and cultural events / competitions organised by the institution year - wise during the last five years.

2019-20	2018-19	2017-18	2016-17	2015-16
15	20	17	7	10

File Description	Document
Upload any additional information	View Document
Report of the event	View Document
Number of sports and cultural events / competitions organised per year	View Document

5.4 Alumni Engagement

5.4.1 The Alumni Association / Chapters (registered and functional) contributes significantly to the development of the institution through financial and other support services.

Response:

BVM Alumni Association, established in the year 1962, is one of the largest Alumni Association. The primary mission of BVM Alumni Association is to reconnect the alumni with their fellow alumni, institute, and students on the campus- engage through various activities among all the stakeholders- generate impact through several social and academic projects for collective growth.

The Association inherits a culture of excellence and professionalism, left behind by its visionary founders since inception, to forge a sustained link between its members and the Alma Mater joining hands together in the cause of fostering and enhancing academic pursuits. It consists of more than 16,000 alumnus from year 1951 onwards which was the first batch of BVM Engineering College. BVM alumni site represent 12000 plus BVM alumni in various chapters spread across the globe, work together to make BVM a world class institution. The members of this Association are privileged to be part of this group.

Many of the BVM Alumni occupies prestigious positions in premier Universities, National Laboratories, ISRO, Government & Defense Establishments, and MNCs etc. Many of our members are successful industrialists and entrepreneurs in the country, adding impetus to the growth of economy. Many of our members are into basic research and development activities in various fields. Enriched with a treasure of knowledge, our members are a driving force helping bridge Science and Technological needs of the country. Some of the distinguishable/notable Alumni's are Dr. A M Naik (Group Executive Chairman, L & T), Shri Tulsibhai Tanti (Chairman & MD, Suzlon), Prof. S. K. Khanna (Former Chairman, AICTE), Shri Prayasvin Patel (Chairman & MD, Elecon Group), Shri Anil Patel (Founder, Apollo Group), Er. Manoj Gupta (CEO, Zomato), Shri Narottambhai Patel (Former Minister, GoG), Shri Bharatsinh Solanki (Former Minister, Government of India), Er. Dhirubhai Babaria (M D of 5 industries and 2 banks Industries HighTech, Milkpad, BC Electronics Dallas), Er. Ashokbhai C. Patel (Principal Phoenix Arizona USA and donor of Ashok Rita Patel Institute of Integrate), Er. Kishor B.Virani (MD of Karp Impex Limited Surat), Er. Nitin Desai (Desai Brothers Limited), Er. Anilbhai Bakeri (Bakeri Associates Ahmedabad), Shreya Gandhi (Scientist, ISRO), and Many More.

The BVM Alumni Association works on several programmes in the common interest of the Alma Mater. BVM Alumni provides support to various activities like donate book & journal, Scholarship to students, Industry Academia Bridging, Alumni Interaction, Sponsor students, Cultural Development, Curriculum Development, Donate equipment & Software, Training & Placement support, Faculty development, MoU with Institutions, etc.

BVM Alumni always organize events like Alumni Day, Farwell function for graduate students, welcome function for new students. The association provides the financial support to poor students through scholarships. The association also encourages the meritorious students through merit prizes, silver medals and gold medals distribution during annual day celebration every year.

File Description	Document
Any additional information	View Document
Link for additional information	View Document

5.4.2 Alumni financial contribution during the last five years (in INR).

Response: A. ? 15 Lakhs

File Description	Document
Any additional information	View Document

NAAC

Criterion 6 - Governance, Leadership and Management

6.1 Institutional Vision and Leadership

6.1.1 The governance of the institution is reflective of an effective leadership in tune with the vision and mission of the Institution

Response:

B V M Engineering College

Vision: “Produce globally employable innovative engineers with core values”

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.

Nature of Governance:

The institute is governed by the Board of Governors (BoG), which is chaired by the Chairman, Charutar Vidya Mandal (A not-profit charitable trust - Parent Organization of BVM). Autonomous status of the BoG follows a democratic and participatory mode of governance having eminent mentors from academics, industries and the state government on board. The BoG delegates authority to the Principal, who is by virtue of post the Member Secretary of the BoG, to execute the proposed policies/strategies consistent with the vision, mission and core values into detailed operational planning through Heads of Departments, Deans, and the various appointed committees. All Heads of Departments, Deans, and Conveners of Committees work under the directions of the Principal who monitors the work and reports to the BoG. The BoG meeting takes place at least four times in a year. All stakeholders actively participate and complete the assigned roles in order to ensure smooth running of the administration at BVM. The administrative set-up of the institute is designed to have a considerable amount of freedom while maintaining openness, transparency and accountability.

Perspective Plans:

BVM has a vision ‘To produce globally employable innovative engineers with core values’. To achieve the vision, there are plans in place (Missions) which are implemented at all levels starting from policy making to final execution. A perspective plan is created to ensure the attainment of the mission.

Majority of the UG programs are NBA accredited to meet the global needs in consistent to the vision of the institute. The present status, brand value and its 73 years of legacy is also exposed through NIRF and GSIRF ranking. BVM has always followed the policy that “think globally act locally”. BVM has put efforts to maintain high standards for imparting quality education at all levels. This has been achieved through upgradation of faculty qualification, updating curriculum in consistent with AICTE guidelines, modernization of infrastructure, adopting institute level automation, bringing academic reforms like

autonomy, adopting digital pedagogy and MOOCS, and establishment of GTU research centre and various centres of excellence. BVM is also beneficiary institute of prestigious world-bank assisted projects of MHRD like TEQIP-II and TEQIP-III.

Participation of Teachers:

Faculty members are one of the key stakeholders and their participation is considered very important in all activities at BVM. Various committees of teachers are formed to ensure smooth conduction of institutional activities. Teachers also play role as mentors and motivators. They are also involved in collaborative community services for the betterment of students and the society at large.

File Description	Document
Any additional information	View Document
Link for additional information	View Document

6.1.2 The effective leadership is reflected in various institutional practices such as decentralization and participative management.

Response:

The decentralization in the institute has been reflected through the organogram as shown below:

The institute promotes a culture of participative management wherein important administrative and academic decisions are taken at the meetings of the Principal and the HODs of the various departments. The Head of department acts as the bridge between the Principal and members of the Department. Weekly departmental meetings are carried out to convey the decisions taken in the Principal and the HODs meeting apart from discussing matters relevant to individual departments.

Autonomous status of the institute is reflected through decision making bodies like academic council at institute level and board of studies at department level. Industry Consultative Committee is formed at department level to address the concerns of industries in the context of curriculum design.

In consistent to the requirement of the Autonomy, Dean Council is formed. Functions of various deans are given below:

- Dean Academics: Plan, coordinate and manage academic activities of Academic council, Curriculum development board, Student registration, Examination etc.
- Dean Faculty affairs: Looks into faculty recruitment and CAS for the faculty members, and any such related matters
- Dean Student affairs: Coordinate the co-curricular and extra-curricular activities
- Dean Administration: Ensures a smooth and transfer administration
- Dean Research and Development: Enhance R & D activities in the Institute
- Dean Industry Institution Interaction: conducts collaborative activities between Industry and Institution.

- Dean Quality assurance: Ensures quality of evaluation.

Various administrative committees are established for smooth functioning and development of the institute. The well-defined role, responsibilities and objectives of each committee is placed on the institute website.

The institute allows Student Participation through the Student Central Committee. Under the leadership of Principal, Dean Student affairs, HoDs, the Vice President of Student Central Committee and ex-officio members select student representatives, General Secretary-GS and Ladies representative-LR every year. Sub-committees are formed, with faculty members as ex-officio mentors, in consultation with the Principal for various portfolios like technical, literary and publication, cultural and sports. GS and LR selects the students' volunteer teams. The faculty ex-officio are responsible for organising various events internally and conduct the selection process of the student candidates to represent BVM in any competition out-side. Student Representatives are responsible for maintaining the decorum and discipline at the institute during the conduction of various events.

Case Study: Internal Quality Assurance Cell (IQAC) under CAS has worked on the following:

- (1) Prepared and scrutinized the list of faculty, eligible for the prescribed **AGP movement**, after studying AICTE recommendations and DTE rules
- (2) Get the above list forwarded to DTE through the Principal (Head of the Institute) for approval
- (3) Prepared and scrutinized the list of faculty, eligible for the prescribed **re-designation**, following the AGP movement order by DTE as in (2)
- (4) Get the above list forwarded to the BoG for approval.

File Description	Document
Any additional information	View Document
Link for strategic plan and deployment documents on the website	View Document

6.2 Strategy Development and Deployment

6.2.1 The institutional Strategic / Perspective plan is effectively deployed

Response:

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. Institute is awarded with TEQIP-II in 2014, UGC autonomy in 2015.

Based on the excellent performance in TEQIP-II, BVM has been selected for TEQIP-III (subcomponent

1.3), under which, BVM as a mentor institute has twinning arrangements for knowledge transfer, exchange of experience, optimizing the use of resources and developing long-term strategic partnerships with Government Engineering College – Banswara. To facilitate these goals, BVM has been allocated Rs. 7 crores under this project in the span of three years (01.04.2017 to 31.03.2020).

The College follows a formally stated policy. The Apex Committee of TEQIP is already formally set up in the college. The committee comprises of HODs and senior faculty members from various departments. This committee in consultation with the principal and heads of various departments plans as per the requirements to deploy various policies that improve the quality of academics in the institution. All the policies and decisions are reviewed in the Principal’s meeting with the Heads and corrective measures are taken if needed before implementation. Feedback given by the faculties and students after every activity is used for improving the outcomes of subsequent activities.

The performance of BVM in TEQIP-II was outstanding. The evaluation rating of BVM is increased from 1.3 in 2017-18 to 1.1 in 2019-20, which gave BVM a place in the top-10 TEQIP- III institutes.

The project focus on following objectives:

Further strengthening of the institution by shaping engineers for high quality and employability through knowledge sharing with premier institutions. To train & guide mentee institutes to build the capacity through twinning arrangements. Enhancing soft-skills of students. Imparting special skill based training to slow learners. To work towards achievement of 100% transition rate for first year to second year. Upgrading department laboratories & learning resources and Central facilities through procurement of goods & civil works. Enhancing demand driven research for innovation and development through quality post-graduation and doctoral programs and Centres of Excellence. Moulding faculty for quality teaching through training in subject & pedagogical domain and qualification up gradation. Enhancing Institute-Industry Interactions. Enhancing Institutional & System Management Effectiveness. Academic & research Tie-ups with premier institutes.

BVM Strategic Plan Deployment

The institution will execute a strategy to enrich learning outcomes of students by improving infrastructure, learning resources, faculty competence and qualifications, interactions and tie-ups with premier institutions and industries. The research activities will be promoted through sponsored research, twinning and collaborative efforts. The training and research activities will be reinforced through establishment of Centres of Excellence. In light of these priorities the institute proposes to vigorously pursue its effort and focus its energies on academic and non-academic reforms and excellence through UGC Autonomy in emerging/thrust areas. The effective implementation of the strategy will be regularly evaluated through NBA and NAAC accreditation.

File Description	Document
Any additional information	View Document
Link for Strategic Plan and deployment documents on the website	View Document

6.2.2 The functioning of the institutional bodies is effective and efficient as visible from policies, administrative setup, appointment and service rules, procedures, etc.

Response:

The administration is directed by the Board of Governors (BOG). Governing body meets regularly and set forth the policies and direction, be it academic, administrative or financial, required for smooth governing of the institute. The institution is known for its good administrative practices and work culture.

According to the organizational structure, the policies and directions set forth by the BoG is translated into planning and execution through the Principal, Academic council, HoDs, Deans, controller of examinations, professor-in-charge of library and various committees.

All decisions of the BoG are percolated from the Principal through meetings with various functionaries of Academic council, HoDs, Deans, controller of examinations, professor-in-charge of library and various committees.

The Academic Council, chaired by the Principal, is the highest academic body which decides and advises on all academic matters. Academic proposals of BOS from each department are scrutinized and approved (if required, with modifications) by the academic council. It also recommends proposals for new programme of study, academic reforms and relevant academic matters for the consideration and approval of BoG. Board of studies of each department is responsible for curriculum design and revision consistent with the contemporary technological advancement. Industry concern in the curriculum design and revision is incorporated through Industry Consultative Committee of the respective department.

Dean council comprising of various deans (R&D, III, academics, administration, student affairs, faculty affairs, international collaboration, and quality assurance) look after planning and execution of various activities related to their domain in consultation with the Principal.

Controller of examination is directly reporting to the principal. All the examination related matters are planned and executed by examination section led by controller of examination.

Heads of various departments receives the directives from the Principal and implement the same through the departmental team comprising of faculty and supporting staff.

Academic & Administrative Committees: The institution has in place several Committees / Sub-Committees in addition to statutory committees to continuously monitor the academic and administrative activities like infrastructural development and maintenance work, office automation for productivity, staff training and upgradation of qualification and research for quality improvement, technical, extra-curricular activities, scholarship, etc.

Library team led by librarian reports to the Professor in charge of Library who in turn reports to the Principal.

Promotional Policy for Faculty Members:

The staff welfare measures include monetary benefits like, reimbursement of fees for pursuing higher studies, depositions with financial assistance, rewards system for research projects etc.

The teaching and non-teaching staff members are paid according to the pay commission recommendations implemented by the Gujrat Government from time to time. The service rules prevailing in the institute is in accordance with the AICTE, Government of Gujarat and affiliating university norms. The teaching and non-teaching faculty are benefited by GPF (EPF for SFI), casual leave, earned leave, medical leave, maternity leave, etc. Recruitments and promotional policies are in consistent with the norms of the affiliating university, AICTE and Government of Gujarat. Self-finance staffs are promoted according to the norms of the management enforced from time to time.

File Description	Document
Any additional information	View Document
Link to Organogram of the Institution webpage	View Document

6.2.3 Implementation of e-governance in areas of operation

1. Administration
2. Finance and Accounts
3. Student Admission and Support
4. Examination

Response: A. All of the above

File Description	Document
Screen shots of user interfaces	View Document
Institutional data in prescribed format	View Document
ERP (Enterprise Resource Planning) Document	View Document
Any additional information	View Document

6.3 Faculty Empowerment Strategies

6.3.1 The institution has effective welfare measures for teaching and non-teaching staff and avenues for career development/ progression

Response:

Welfare scheme for teaching and non-teaching staff:

1. Group insurance scheme for teaching and non-teaching staff.
2. CAS scheme is driven by State government for teaching staff is available.
3. Different type of leaves are available to teaching and non-teaching staff like, maternity leave, paternity leave and earned leave for employees.
4. Retirement benefits to all teaching and non-teaching staff like pension, family Pension, NPS are

available.

5. VRS option for employees.
6. Staff quarters for teaching and non-teaching staff is provided within nearby college by CVM.
7. Doctor and basic medical facility is available for staff by CVM.
8. Reimbursement of fees for technical events like, paper presentation, STTP, workshop is provided by college from TEQIP funds to all staff.
9. LTC facility is also provided to Staff.

File Description	Document
Any additional information	View Document

6.3.2 Average percentage of teachers provided with financial support to attend conferences / workshops and towards membership fee of professional bodies during the last five years.

Response: 37.06

6.3.2.1 Number of teachers provided with financial support to attend conferences/workshops and towards membership fee of professional bodies year wise during the last five years

2019-20	2018-19	2017-18	2016-17	2015-16
32	44	21	109	92

File Description	Document
Institutional data in prescribed format	View Document
Any additional information	View Document
Link for additional information	View Document

6.3.3 Average number of professional development / administrative training Programmes organized by the institution for teaching and non-teaching staff during the last five years.

Response: 22.4

6.3.3.1 Total number of professional development /administrative training Programmes organized by the institution for teaching and non teaching staff year-wise during the last five years

2019-20	2018-19	2017-18	2016-17	2015-16
29	20	28	16	19

File Description	Document
Reports of the Human Resource Development Centres (UGC ASC or other relevant centres).	View Document
Reports of Academic Staff College or similar centers	View Document
Institutional data in prescribed format	View Document
Any additional information	View Document

6.3.4 Average percentage of teachers undergoing online/ face-to-face Faculty Development Programmes (FDP) during the last five years (Professional Development Programmes, Orientation / Induction Programmes, Refresher Course, Short Term Course).

Response: 39.41

6.3.4.1 Total number of teachers attending professional development Programmes, viz., Orientation Programme, Refresher Course, Short Term Course, Faculty Development Programmes year wise during last five years

2019-20	2018-19	2017-18	2016-17	2015-16
86	27	38	82	85

File Description	Document
Reports of the Human Resource Development Centres (UGC ASC or other relevant centers)	View Document
IQAC report summary	View Document
Institutional data in prescribed format	View Document
Any additional information	View Document

6.4 Financial Management and Resource Mobilization

6.4.1 Institution conducts internal and external financial audits regularly

Response:

Institution conducts internal and external financial audits regularly.

The Institute has a mechanism for internal and external audit to ensure financial compliance. The Institutional accounts are regularly audited. The observation of the auditors, if any, are corrected / rectified.

Internal Audit: The Internal audit is an ongoing continuous process. Qualified Internal Auditors from external resources have been appointed in every year and a team from CVM (Parent Institution) do a thorough annually check and verification of all Financial aspects, receipts & journals vouchers of the transactions cashbooks, ledger account review that are carried out in each financial year on an accrual basis system. CVM conducts the internal audit of the college every financial year.

External Audit: The financial records are audited by qualified chartered accountants at the end of each fiscal year and the balance sheet is certified. The External audit carried out by AG (accountant general) audit and DTE (Director of Technical Education, Gujarat) Audit. In case of any audit objections, a written clarification along with supporting documents/vouchers/bills/receipts /certificates/ are submitted to the Audit team to account for the expense incurred or funds used appropriately according to the head for which they were allocated.

File Description	Document
Any additional information	View Document

6.4.2 Funds / Grants received from non-government bodies, individuals, philanthropists during the last five years (not covered in Criterion III and V) (INR in Lakhs)

Response: 45.72

6.4.2.1 Total Grants received from non-government bodies, individuals, Philanthropers year-wise during the last five years (INR in Lakhs)

2019-20	2018-19	2017-18	2016-17	2015-16
0.66	11.01	4.62	26.40	3.03

File Description	Document
Institutional data in prescribed format	View Document
Any additional information	View Document
Annual statements of accounts	View Document

6.4.3 Institutional strategies for mobilisation of funds and the optimal utilisation of resources

Response:

BVM is an Autonomous institute, offering both Grant-in-Aid and Self-finance courses. The funds are generated through Government grants, parent management CVM and students' fees. BVM Alumni Association is actively supporting and promoting donations from philanthropists all over the world for development of the infrastructural facilities which in turn augments academic activities.

National presence of BVM is attained through avenues like NBA, UGC Autonomy, NIRF ranking and GSIRF ranking. Such credibility enables faculty members to get additional funding from funding agencies like MHRD, UGC, DST, Gujarat Government, parent University, etc.

The institute has mechanism to monitor effective and efficient utilization of available financial resources for the development of the academic processes and infrastructure development. Institutional Annual budget is prepared as per the requirements given by head of all departments and section-in-charges. The same is sanctioned by BOG on the request of Principal.

Academic, curricular and co-curricular activities are planned to ensure effective utilization of the available resources. The major financial transactions are analysed and verified by the governing body under different heads. AMC or rate contract is given for equipment maintenance.

Procedure of utilization of funds:

- Institute adheres to Utilization of budget approved for academic expenses and administrative expenses by management.
- After final approval of budget, the purchasing process is initiated by head of departments in consultation with department team and account officer. Accordingly, the quotations are invited and after the negotiations purchase order is placed.
- The payments is released after delivery of the respective goods it is done as per the terms and conditions mentioned in Purchase order.
- All transaction has transparency through bills and vouchers. The bill payments are passed after testing & verification of items. Only authorized person operate the transaction through bank.
- Concerned faculty member ensures that whether suitable equipment/machinery with correct specification is purchased.
- The entire process of the procurement of the material is monitored by head of department and Principal at institute level then account section at office level.
- Financial audit is conducted by chartered accountant every financial year to verify the compliance.
- Financial audit by trust [as internal audit], Higher education and AG audits are also conducted.

File Description	Document
Any additional information	View Document

6.5 Internal Quality Assurance System

6.5.1 Internal Quality Assurance Cell (IQAC) has contributed significantly for institutionalizing the quality assurance strategies and processes visible in terms of – Incremental improvements made for the preceding five years with regard to quality (in case of first cycle) Incremental improvements made for the preceding five years with regard to quality and post accreditation quality initiatives (second and subsequent cycles)

Response:

Internal Quality Assurance Cell (IQAC) is envisioned to inculcate a quality culture in line with the institute vision. IQAC is actively involved in NBA, NIRF ranking under the leadership of Dean Quality Assurance.

Objectives of IQAC are:

To act as a catalyst for conscious and consistent improvement of performance, both academically and administratively.

To inculcate a quality culture among individual stake holders as well as at institute level.

To develop and institutionalize best practices.

Activities performed to measure the quality are:

1. Academic Audit

Course files are prepared by faculty members in every semester. An academic committee consisting of HOD, course coordinator and few of departmental senior faculty members performs audit of course files. The comments of the committee are given as feedback to the faculty member to include the recommended material. This audit ensures the quality of deliverables.

Regular monitoring of students attendance in theory and practical is carried out by respective subject teacher. Counsellors mentor the students having less attendance. If required parents are informed to intervene.

Every department academic committee check the quality of paper and appropriate feedback is given to faculty member.

Based on the feedback, they are deputed for STTP/ Workshop/ Training.

2. Counselling of the students

At the end of semester, feedback is taken from students for every course. In all the departments, there is a Department Academic Committee (DAC) that does the analysis of the collected feedback and decides the corrective actions for each course. These actions are conveyed to the respective course coordinator(s), wherever applicable.

In every department, every faculty counsellor is counselling a group of 30-35 students. A regular slot is provided in the timetable for counselling. During counselling sessions comfortable environment is provided to students to discuss their problems regarding their academic and personal life. Based on the discussions, the mentor also identifies the areas in which special attention is required for the students. Faculty counsellor advises the students to participate in various activities carried out in house or outside which will enhance their technical as well as personal traits. Students are also encouraged for industrial training during vacations.

During the semester, the attendance report of students in each course is generated by respective course coordinators and the list of low attendee students is sent to the faculty counsellor for corrective measures. Faculty Counsellor also conducts career counselling. Success stories of alumni are also discussed to

motivate the students. Students are encouraged to develop core values in line with vision and mission of the institute.

File Description	Document
Any additional information	View Document

6.5.2 The institution reviews its teaching learning process, structures & methodologies of operations and learning outcomes at periodic intervals through IQAC set up as per norms and recorded the incremental improvement in various activities (For first cycle - Incremental improvements made for the preceding five years with regard to quality For second and subsequent cycles - Incremental improvements made for the preceding five years with regard to quality and post accreditation quality initiatives)

Response:

BVM has been conferred with autonomous status by UGC from AY: 2015-16. Since then, every department has formed four major committees, which drive these improvements, are the Academic Council, BoS, IQAC and CDB (Curriculum Development Board). In addition to this, ICC and DAC are formed with an objective to streamline the teaching-Learning processes. Institute has organized various workshops to design OBE based curriculum, design question papers according to Bloom's taxonomy and to implement exam reforms. It is carried out to improve employability and progression.

Curriculum design:

Academically autonomous departments have designed and implemented OBE based curriculum as per the AICTE model curriculum. This process involve drafting of the curriculum, incorporation of the concerns of the industries through Industry Consultative Committee (ICC), approval of the BoS and final endorsement by Academic Council with/without modifications. The BoS incorporates university representative, distinguished alumni as well as subject experts of the domain in addition to the faculty of the department. The feedback of expert from affiliating university, alumni and distinguished subject experts are taken while designing curriculum of respective program.

Every syllabus consists of course objectives, course outcomes (COs) and mappings between COs and POs (Programme Outcomes). The weightage of basic and fundamental science courses, humanities courses, management course, programme core courses, programme elective course, and open elective courses is in line to the AICTE guidelines. Besides these there are some mandatory audit (non-credit) courses as well.

With a view to give early exposure to industrial environment to the students, Industry Internship (5 to 6 weeks) has been made compulsory, to be carried out during the summer vacation, for the award of degree. Industrial exposure to the graduates is augmented through compulsory minor projects in the final year. However, meritorious students are given an opportunity to opt for major project to be carried out full time (one semester) at industry.

The humanities courses, like professional soft skills, value education, human rights and legislative procedures, are incorporated in the curriculum to churn out the graduates inculcated with core values as

envisioned by the institute.

During academic year 2018-19, revised curriculum is implemented with a maximum credit requirement of 160. Non-credit course of environmental science as well as English is also part of the curriculum.

Exam reforms

Curriculum Development Board (CDB) has taken an initiative to ensure the good quality of the question papers. The sub-committee formed by CDB drafted the format of the question paper incorporating COs and Bloom's taxonomy levels, that is implemented for all programs.

At the end of every semester, quality of question papers is accessed as per the format designed and implemented. Each course coordinator calculates the (direct) attainment levels of COs of that course as well as the attainment levels of the POs through that course.

File Description	Document
Any additional information	View Document

6.5.3 Quality assurance initiatives of the institution include:

1. Regular meeting of Internal Quality Assurance Cell (IQAC); Feedback collected, analysed and used for improvements
2. Collaborative quality initiatives with other institution(s)
3. Participation in NIRF
4. Any other quality audit recognized by state, national or international agencies (ISO Certification)

Response: All of the above

File Description	Document
Upload e-copies of the accreditations and certifications	View Document
Institutional data in prescribed format	View Document
Any additional information	View Document
Paste web link of Annual reports of Institution	View Document

Criterion 7 - Institutional Values and Best Practices

7.1 Institutional Values and Social Responsibilities

7.1.1 Measures initiated by the Institution for the promotion of gender equity during the last five years.

Response:

The institution makes sincere efforts to empower women faculty and students. BVM Women Development Cell (WDC) is continuously working towards women empowerment and gender equity. WDC Members are constantly putting efforts towards organizing events which largely benefit the girl students, lady faculties and society at large. BVM WDC have been organizing several awareness programs for women safety, health and hygiene care for girls and lady faculties. In all curricular and co-curricular activities, lady faculty members and girl students are treated equally at par with the male counterparts. Lady faculty members are working in various capacities like Professor and Head, Professor in-charge, Associate Dean, Convener and members of various committees.

The collegiate women development committee and Anti-Sexual Harassment Committee under the banner of WDC does several interactions with the students and faculties during academic and non-academic activities of the college. A BVM Central Committee has a girl student as Ladies Representative, as a representative of all girls of the campus.

The sanitary napkin incinerators as well as sanitary napkin vending machines are installed in the ladies room for the health and hygiene maintenance for the girls. The women cell members interact with girl students and make them aware of various gender problems and personal distress, so as to develop the sensitization of students. Girls' common room facility is available in the campus to facilitate a rest place with privacy. The Women Cell also celebrates International women's day every year.

BVM considers safety and security of the girl students as top priority and has initiated many fool-proof measures. The Anti-ragging committee members monitor and ensure that the campus and hostels are ragging-free. The Hostels are installed with CCTV surrounding the building to monitor the movements. The hostels are fenced and gated properly. Further, the inward and outward movements of outsiders are recorded and monitored by professional Security personnel. Apart from this, students are mandated to wear their IDs and monitored by the full-time vigilant security personnel guarding the gates. To facilitate a more secure environment, the girls' hostel is under the constant vigil of a Woman Warden. The timings for the student's entry into Hostel and attendance in their hostel is also maintained. In house lodging facility is available for all inmates. First aid kits and necessary medicines are made available with warden. Warden refers the girl student to the university health centre whenever needed.

File Description	Document
Specific facilities provided for women in terms of: a.Safety and security b.Counselling c.Common Rooms d. Day care center for young children e. Any other relevant information	View Document
Annual gender sensitization action plan	View Document

7.1.2 The Institution has facilities for alternate sources of energy and energy conservation measures

- 1.Solar energy
- 2.Biogas plant
- 3.Wheeling to the Grid
- 4.Sensor-based energy conservation
- 5.Use of LED bulbs/ power efficient equipment

Response: A. 4 or All of the above

File Description	Document
Geotagged Photographs	View Document
Any other relevant information	View Document

7.1.3 Describe the facilities in the Institution for the management of the following types of degradable and non-degradable waste (within 500 words)

- Solid waste management
- Liquid waste management
- Biomedical waste management
- E-waste management
- Waste recycling system
- Hazardous chemicals and radioactive waste management

Response:

1. Solid Waste Management: The dry solid waste is put in a collection pit located within the campus by the sweepers, which is subsequently transported to the nearest community bins provided by Vallabh Vidyanagar Municipality. Sufficient quantities of waste bins, clearly marked as Dry Waste and Wet Waste, are placed at a number of places within the campus.

2. Liquid Waste Management: All liquid waste generated in the institute is collected by a well-established sewer network of the campus which is connected to the Municipality sewer network.

3. Biomedical Waste Management: Biomedical waste is not generated inside the campus, as the parent management run Health centre is close to the campus.

4. E-Waste Management: The e-waste generated from hardware which cannot be reused or recycled is being disposed through the registered vendor (Geeniva Recycler Pvt. Ltd. 341/4G,1st Floor, Kanti Nagar, Industrial Area, New Delhi-110051) as per the procedure set by the management (CVM), from time to time.

With the support from NSS BVM from, the current academic year E-waste Bins has been installed in the campus for effective management of the E-Waste as a part of saving the environment.

6. Hazardous and Radioactive Waste management: Radioactive waste is neither generated nor received by the campus. Hazardous waste (chemical), received in an environmental engineering laboratory for analysis is safely disposed of to Treatment, Storage, and Disposal Facilities (TSDF) site located at Nandesari, Dist. Vadodara (Gujarat) through sister Institution SICART (Sophisticated Instrumentation Centre for Applied Research and Testing).

File Description	Document
Relevant documents like agreements/MoUs with Government and other approved agencies	View Document
Geotagged photographs of the facilities	View Document
Any other relevant information	View Document

7.1.4 Water conservation facilities available in the Institution:

1. Rain water harvesting
2. Borewell /Open well recharge
3. Construction of tanks and bunds
4. Waste water recycling
5. Maintenance of water bodies and distribution system in the campus

Response: A. Any 4 or all of the above

File Description	Document
Geotagged photographs / videos of the facilities	View Document
Any other relevant information	View Document

7.1.5 Green campus initiatives include:

1. Restricted entry of automobiles
2. Use of Bicycles/ Battery powered vehicles
3. Pedestrian Friendly pathways
4. Ban on use of Plastic
5. Landscaping with trees and plants

Response: B. 3 of the above

File Description	Document
Various policy documents / decisions circulated for implementation	View Document
Geotagged photos / videos of the facilities	View Document
Any other relevant documents	View Document

7.1.6 Quality audits on environment and energy regularly undertaken by the Institution and any awards received for such green campus initiatives:

1. Green audit
2. Energy audit
3. Environment audit
4. Clean and green campus recognitions / awards
5. Beyond the campus environmental promotion activities

Response: A. Any 4 or all of the above

File Description	Document
Reports on environment and energy audits submitted by the auditing agency	View Document
Certification by the auditing agency	View Document
Certificates of the awards received	View Document
Any other relevant information	View Document

7.1.7 The Institution has disabled-friendly, barrier free environment

1. Built environment with ramps/lifts for easy access to classrooms.
2. Disabled-friendly washrooms
3. Signage including tactile path, lights, display boards and signposts
4. Assistive technology and facilities for persons with disabilities (Divyangjan) accessible website, screen-reading software, mechanized equipment
5. Provision for enquiry and information : Human assistance, reader, scribe, soft copies of reading material, screen reading

Response: A. Any 4 or all of the above

File Description	Document
Policy documents and information brochures on the support to be provided	View Document
Geotagged photographs / videos of the facilities	View Document

7.1.8 Describe the Institutional efforts/initiatives in providing an inclusive environment i.e., tolerance and harmony towards cultural, regional, linguistic, communal socioeconomic and other diversities (within 500 words).

Response:

The institution is highly committed to promote cultural, regional, linguistic, communal and socio-economic harmony among students, faculties and staff. The institutional initiatives and efforts in this regard are as follows:

Republic and Independence days are celebrated where students, faculties and staff participate whole heartedly. Cultural and social activities are also performed during these events.

Gender equality and women empowerment is the 3rd Millennium Development Goal expected to embark upon giving women their share in society and access to use of new technologies. Therefore, women's role in Nation development is extremely important. To create awareness for the same and to promote women empowerment, Institute has organized two International Women Conferences in 2016 and 2018 namely, International conference on Women in science & technology: creating sustainable career, to bring all the stakeholders together to discuss how to foster women's contribution to Engineering, Technology, Science, Management, Humanities and all other relevant fields.

Faculty members, staff and students take pledge on Sanitation and Hygiene, voting and Traffic rules, aimed at promoting interaction as well as awareness.

The College also organizes cultural activities to promote linguistic harmony through the involvement of students of various cultural and linguistic backgrounds, be it dance, songs, skits etc. Cultural activities are organized in annual social gathering like annual day, Fresher's day, farewell function etc. for the student as well as staff. Garba during Navratri is a special occasion for disseminating local cultural values.

The Institute has faculty members and staff from different regions of the Nation holding various academic and administrative portfolios.

The college celebrates International yoga day to highlight the importance of physical and mental health. Various religious festivals are also celebrated to give spiritual sense to the students, staff and faculties.

The college organizes visits to industries and villages to create awareness about the need to integrate with their requirements as engineers.

Birth anniversary of inspiring Indian personalities like Shri Sardar Vallabhbhai Patel, Dr. Radhakrishnan (Teacher's day), Er. M Visvesvaraya (Engineer's Day) etc. are celebrated in college.

The college provides assistance to the students from economically weaker sections for obtaining scholarships. Faculty member(s) is appointed as Nodal Officer by the college to assist students in obtaining scholarship/free ships from Government of GUJARAT, like economic backward class

(EBC), free ship for the schedule caste and scheduled tribe (SC & ST) and other backward classes (OBC). SC-ST Cell is constituted to support students belonging to reserved category.

File Description	Document
Supporting documents on the information provided (as reflected in the administrative and academic activities of the Institution)	View Document

7.1.9 Sensitization of students and employees of the Institution to the constitutional obligations: values, rights, duties and responsibilities of citizens (within 500 words).

Response:

The students are encouraged to participate in various activities that inculcate values and social responsibilities like Community Health Programmes, Blood Donation Camps, Tree Plantation, Yoga training programmes, celebrations of National festivals and Swatch Bharat abhiyan.

With the active involvement of enthusiastic student volunteers, N S S unit at institute organizes various social activities throughout the year like Blood donation Camp, Thalassaemia Prevention and testing Program, Voters' training for VVPAT and EVM, Voters' awareness campaign & Rally, NAMO E-Tab Yojana of Govt of Gujarat, Sainik Welfare Fund, Residential camp at village etc. A student, Mr Yash Ubhadiya was awarded with Best NSS Volunteer for the year 2018-19 by Gujarat Technological University. Ms. Dhvani Trivedi, student of EC department, has been selected to present her idea on Mobile learning based on Artificial intelligence in UNESCO's flagship ICT in education conference at headquarter of UNESCO in Paris.

Institute is associated with 2 Gujarat Composite technical company NCC, V V Nagar Group Headquarter for conducting NCC activities for the students. The NCC unit at the institute, led by Prof. Ashish Patel, Electrical Department, is actively working to inculcate values for being responsible citizens. Student cadets of BVM are participating in various state and national level camps as well as various social activities scheduled by NCC directorate Gujarat.

Mr. Amanpreetsingh H Chopra, a Computer engineering student, was selected for 26th January 2018 Republic day parade, New Delhi. Mr. Rushi Kalpeshbhai Patel, Mechanical engineering student represented V. V. Nagar NCC Group Headquarter out of five groups of Gujarat Directorate at IGC-Republic Day Camp parade 2019, as Guard Commander of Group in Guard of Honour Competition-2019 at Ahmedabad from 21st Nov.-30th Nov. 2019 and awarded Certificate of Appreciation from Gujarat, Diu & Daman Directorate.

Sensitization of students towards development of rural area has also been taken care by the institute through various projects like Vishwakarma yojana: an approach towards Rurban development (A project by Govt. of Gujarat), Unnat Bharat Abhiyan (A project by AICTE-MHRD) and Mission Antyodaya (A project by Rural development department, Govt of Gujarat). Students are playing a

pivotal role in preparing development plans for rural India. Institute also organizes village visits for newly admitted students during their Induction Program.

BVM students and faculties are also involved in upliftment of socially backward children through BACHPAN NGO, where deprived students of society are provided evening education and activities for their overall growth.

Special non-credit course is offered on Constitution and Ethics for sensitizing students about the constitution of India, duties towards the nation as well as their rights as a citizen of India and creating awareness about practicing social harmony.

Another Non-credit mandatory course on Environmental science is also incorporated in the curriculum to make the budding engineers aware of the need to protect the environment.

File Description	Document
• Details of activities that inculcate values; necessary to render students in to responsible citizens	View Document
Any other relevant information	View Document

7.1.10 The Institution has a prescribed code of conduct for students, teachers, administrators and other staff and conducts periodic programmes in this regard.

- 1. The Code of Conduct is displayed on the website**
- 2. There is a committee to monitor adherence to the Code of Conduct**
- 3. Institution organizes professional ethics programmes for students, teachers, administrators and other staff**
- 4. Annual awareness programmes on Code of Conduct are organized**

Response: C. 2 of the above

File Description	Document
Details of the monitoring committee composition and minutes of the committee meeting, number of programmes organized, reports on the various programs etc., in support of the claims	View Document
Code of ethics policy document	View Document

7.1.11 Institution celebrates / organizes national and international commemorative days, events and festivals (within 500 words).

Response:

BVM celebrates national and international commemorative days, events and festivals wherein the students, faculty members, staff, alumni and management participate wholeheartedly.

Independence Day and Republic day are celebrated to boost the national spirit amongst the BVM family. Students and staff gather for flag hoisting and remember the contributions and sacrifices of the freedom fighters to have today's India.

International women's day is celebrated to propagate gender equality and awareness of women rights for a better quality society. To make the mind, body and soul healthy, International Yoga day is celebrated every year.

World Blood Donor Day, in association with government recognized blood banks, is celebrated by donating blood by staff and students. Thalassaemia awareness campaign is organized every year for new entrants of the institute.

Importance of clean campus is highlighted through Swachh Bharat Abhiyaan wherein students, staff and faculties not only take pledge for the cleanliness but also clean the respective workplace.

Young and eligible students are educated about the need for exercising their voting rights to have a healthy democratic system.

On account of Sardar Vallabhbhai Patel Jayanti, BVM, in association with Institute of Engineers Local Chapter, organizes Sardar Patel Memorial Lecture Series where nationally known eminent speakers deliberate about Sardar Vallabhbhai Patel. This event culminates with Run for Unity program.

World Environment day, Teacher's day, Engineer's day, Gandhi Jayanti are also celebrated at the institute.

File Description	Document
Geotagged photographs of some of the events	View Document
Annual report of the celebrations and commemorative events for the last five years	View Document

7.2 Best Practices

7.2.1 Describe two best practices successfully implemented by the Institution as per NAAC format provided in the Manual.

Response:

Best Practice – 1

1. Title of the Practice

Industry Institute Interaction

2. Objectives of the Practice

Producing skilled, globally competent professionals through quality technical education and to prepare them for immediate employment should be the goal of any technical institute. Moreover, to produce capable graduates ready for the industry, it is the need to know the requirements of the industries through a sustainable industry-institute interaction model and engraving best practices to arrive with desired outcome. Industry Institute Interaction cell at the institute is established to facilitate industry collaboration through various activities involving industries and institute. It promotes creating products and technologies that address the industrial and societal needs and also nurture the innovative minds.

3. The context

With the advent of globalization and opening up of Indian economy to the outside world, competition among industries have become stiff. There is a need to prepare engineering students, by exposing them to newer technologies and engineering methodologies, so that they can solve industrial problems. These objectives can only be achieved well by bridging the gap between industry and the academic institute. An aim to establish a sustainable industry-institute interaction model at the institute is to enhance Engineering Curriculum as per the need of industry, to provide exposure of industrial atmosphere to the students and subsequent placement of young graduating engineers in industries across the country.

4. The Practice

The Practice and its uniqueness in the context of Industry Institute Interaction at BVM is reflected by several practices adopted by the institute. Few of them are listed below:

- One Faculty-One Industry: Association of each faculty member with one industry.**
- MoU between the Institute and industries to bring the two sides closer emotionally and strategically.**
- Collaborative efforts with the industry personnel for enhancing the learning levels of the graduates.**
- Conducting Annual project expo- Exhibition of research projects of UG/PG students where the projects are evaluated by industry experts.**
- Industry Consultative Committee at each department to ensure industry concerns in curriculum design to meet the needs of industry.**
- Partial delivery of curriculum through guest lectures, expert talks involving industry experts, industrial visits, faculty development programs in association with industry.**
- Six-week mandatory internship and incorporation of industry defined project as a part of curriculum.**

- **Promoting PG projects/dissertation work in industry under joint supervision of faculties and industry experts.**
- **More emphasis on Testing and Consultancy by the faculty to industries.**
- **Involvement of faculty members as an expert to industry for subject domain discussions and consultancy wherever possible.**
- **Offering part time PDDC program for nearby Industry staff for their qualification upgradation.**
- **Inviting industry experts as visiting faculty.**

5. Evidence of Success

College administrators and faculty members are giving focused efforts in organizing various activities involving industry personnel, ensuring student has the expected knowledge, skills and attitude to be ready for the industry absorption. Few successful outcomes of Industry Institute Interaction are:

- **Establishment of Centre of Excellences in various emerging technologies, namely SATT Engineering centre of excellence, centre of excellence for communication skills, ELARC (ELeCtromagnetics and Antenna Research Centre),**
- **Industry funded research labs to emphasize research oriented technology transfer.**
- **Industry scholarship/fellowships to support and motivate bright and needy students for their studies.**
- **State of art infrastructure development with the help of various Industries.**
- **Establishment of various Professorial Chairs and organization of various activities sponsored by industry.**
- **Enhanced number of Entrepreneurs**
- **Increase in Placement ratio**

6. Problems Encountered and Resource Required

- **The time management issues especially in the context of availability of industry experts.**

However, active interaction between faculty and industry experts circumvents the situation as and when it arises.

- The professionals and industrialists as part of the Industry Consultative Committee, Board of Studies and Academic Council often put forth suggestions pertaining to specific industrial requirements to be incorporated in the curriculum, which sometimes could not be complied with. Larger job prospectus of the graduates attributes to the reason for non-inclusion of the same.
- BVM alumni working as professionals and industrialists facilitates the III activities at the campus.

Best Practice – 2

1. Title of the Practice

Learning beyond Curriculum Activities

2. Objectives of the Practice

The objectives of Learning Beyond Curriculum Activities is to improve student learning, enhance graduates employability, research and innovation environment, and motivate faculty and staff for producing industry ready graduates.

3. The Context

Learning beyond curriculum activities are conducted either by the faculties exposing the students with contemporary/relevant topics or by expert talks by industry persons. Institute faces the challenge of getting industry experts during working days due to their busy schedule. However, industry experts by and large cooperate with the institute.

In order to circumvent the above lacuna, the institute keeps Saturdays free from teaching learning activities as a matter of policy. Here, the challenge lies in building consensus among Head of departments, departmental faculty members, student community and administration to prepare the timetable with academic activities pertaining to teaching and learning activities from Monday to Friday slots and earmarking Saturdays for learning beyond curriculum activities apart from mentoring/counselling and Swachhta Abhiyan activities.

4. The Practice

Learning beyond Curriculum practice helps to improve student knowledge. It is achieved through

various activities such as:

- **Permitting students to get training at IIT/NIT or in research organizations, throughout the Nation.**
- **Induction Training for 1st year students is conducted after their admission by trained faculty mentors and induction coordinators through lecture series on universal human values, communication skills, conceptual learning on mathematics and physics, art and craft training, physical activities with own faculty and hired experts, village and industry visit.**
- **Arranging GATE orientation program for all students and GATE Preparation Classes from 3rd year onwards, providing GATE learning materials for students preparing for GATE who are not participating in GATE training.**
- **Career counselling sessions for students' employability, conducting diagnostic tests to diagnose the weakness of the admitted students and subsequently to groom them; Student Excellence and Learning Programme (SELP-Art of Living course) during Induction Training.**
- **Psychometric evaluation of the students.**
- **Peer to Peer Learning (organizing Techfest, Mock placement interviews, encouraging student's participation in Tech Fest of IIT/NIT, participation in various local/state/national level technical competitions, students' chapters like ISTE, IEEE, CSI, IE, ACE, RSC)**
- **Organizing visits to industries, IITs and R&D organizations**
- **Awareness drive workshops about the idea of innovation & start-up, Continuous Drive of Competitions: Smart India Hackathon, Idea stage, prototype stage, business plan, etc, Soft Skill training (Industry Readiness);**
- **Remedial coaching for first to final year students in Communication Skills, quantitative ability, logical reasoning as observed in AMCAT employability test.**
- **Specialized industry-based training programs by industry.**
- **Organizing motivational talks by local entrepreneurs, E-summits, conferences, seminars.**
- **Formation of students' clubs for domain and general areas.**
- **Various students chapters like IE(I), ISTE, IEEE, CSI organise various activities to mould budding engineers into around employable personalities.**
- **Technical and non-technical activities are funded by TEQIP II, TEQIP III and BVM Alumni Association.**

5. Evidence of Success

Learning beyond curriculum activities are carried out in the institute with an aim to nurture the students for their overall development. Various milestones achieved after successful implementation of these activities are:

- Increase in interest of various large and medium scale industries for placement and other collaborative activities.
- Escalation in the employability of students. More than 80% of eligible students get placed before they graduate.
- Increase in number of students joining for higher studies in India and abroad.
- Increase in number of startups and self-employment by BVM graduates.

6. Problems Encountered and Resources Required

With the active support of parent organization Charutar Vidya Mandal, Gujarat Technological University, DTE-Government of Gujarat, NPIU/AICTE/MHRD, GUJCOST, BVM Alumni Association and large-hearted donors and well-wishers, Birla Vishvakarma Mahavidyalaya is blessed with human and financial resources because of which large numbers of activities have happened in the campus.

- Awareness of job potential by arranging alumni talks and conducting of Alumni meet for career guidance and placement activities
- STTPS/Workshops, Patent clinics, conferences have also been organized in the campus which have helped in bridging the curriculum gap.

File Description	Document
Best practices in the Institutional web site	View Document
Any other relevant information	View Document

7.3 Institutional Distinctiveness

7.3.1 Portray the performance of the Institution in one area distinctive to its priority and thrust within 1000 words

Response:

Vision of the Institution is to produce globally employable innovative engineers with core values.

BVM is moulding and empowering students in the pursuit of knowledge, skills, values and social responsibility. The institute has established its distinctive approach by adapting outcome-based education, experiential learning, and industry internships and beyond curriculum activities that in turn develop students' skills in multidisciplinary areas. A variety of teaching and learning techniques are employed to impart knowledge and skills to students.

BVM has nurtured and produced a plethora of famous alumni, spread across the globe, who could create a positive impact on the society through their contribution be it international, national, regional or institutional. BVM Alumni are actively involved in academic processes like Board of Studies as well as sharing their expertise during Learning Beyond Curriculum activities. A large number of alumni have contributed for augmenting and strengthening the campus facilities like, renovation of drawing halls, solar panel implementation, refurbishment of class rooms, setting up research laboratories and many more. BVM Alumni Association, established in 1972, is the most vibrant association connecting alumni across the globe to alma mater. (<https://www.bvmalumni.ac.in/>) More than 20,000 alumni are life members of the alumni association. The association organizes various activities like panel discussion, reunions, gatherings (Chai pe Charcha and Chai pe Dosti) to connect the alumni with each other. Realizing the strength of alumni, the Institute constituted an Executive Committee and Advisory Committee for Alumni to make better liaison and to manage the vast Alumni base.

The broad objectives of the BVM Alumni Association are:

- **To manage the vast Alumni database since 1948.**
- **To help with funding requirements for students projects through Alumni.**
- **To hold Alumni meet from time to time for better coordination.**
- **To help with financial requirements for needy students.**

Every year BVM Alumni association publishes the newsletter to share the campus news among the alumni network. (<https://www.bvmalumni.ac.in/campusfeed?cat=5109>). Few of the noteworthy contributions from BVM Alumni association are:

- **More than 2.5 Crore contribution for various activities and infrastructure development during the last five years.**
- **The rejuvenation of classrooms and different buildings as a part of platinum Jubilee celebration of the Institute cost approximately 82 Lacs.**
- **Financial assistance of about ? 17 Lacs as merit prizes and scholarships.**
- **Contribution of about 9 Lacs as sponsorship for annual Tech-Fest UDAAN.**
- **Over ? 5 Lacs contributed as sponsorship to Student's Club for All-Terrain Vehicle (ATV) Project.**

The galaxy of BVM Alumni includes many legends, few of them are listed below:

▶	Er. Bhikhubhai Patel	Chairman Charutar Vidyamandal Vallabh Vidyanagar
▶	Er. A.M. Nayak	Padma Bhusan & Padma Vibhushan, MD and CEO Larsen & Toubro Limited India
▶	Er. Anilbhai Bakeri	Bakeri Associates, Ahmedabad
▶	Er. Anilbhai T. Patel	Minister (state) of for Industries Mines-Mineral Tourism, Civil Aviation, cottage Industries, salt Industries Printing and Stationary Govt. Of Gojarat and Managing Trustee of SVPT Mehsana, Gapnat Vidyanagar and MDEF etc.
▶	Er. Ashokbhai C. Patel	Principal Phoenix Arizona USA and donor of Ashok Rita Patel Institute of Integrate Biotechnology, New Vidyanagar
▶	Dr B. P. Swadas	Ex. Principal BVM
▶	Prof S. K. Khanna	Ex. Chairman AICTE, Ex Vice Chairman of UGC
▶	Er. Bharatsinh Solanki	Ex. Union Minister of state, Govt. of India, Ex. President of Gujarat Pradesh Congress Committee, Member of Parliament.
▶	Er. Dhirubhai Babaria	M D of 5 industries and 2 banks Industries HighTech, Milkpad, BC Electronics Dallas USA, Sahajanand Laser Gandhinagar and the founder of Babaria Institute of Technology Babaria Institute of Pharmacy VARNAMA Vadodara
▶	Dr. H. V. Trivedi	Ex. Director, Nirma Institute of Technology Ahmedabad

▶	Er. Himmatbhai J. Patel	Well known Building Contractor of Anand
▶	Dr. J. C. Vyas	Ex. Principal SVNIT Surat
▶	Er. Kiritbhai Budhbhatti	International Valuer of Plant Machinery and Real estate
▶	Er. Kishor B. Virani	MD of Karp Impex Limited Surat
▶	Er. Kishorbhai Raheja	Managing Director of Raheja Groups Mumbai
▶	Prof. M. N. Patel	Ex. Principal, L D College of Engineering, Ex. VC, Gujarat University, Provost, Parul University
▶	Er Narottambhai T. Patel	Former Minister for Water Supply and water Resources Govt. of Gujarat and Trustee of DUT School, Umiya Parivar trust.
▶	Er. Navinbhai B.Patel	Member of many Committees in USA Like Environmental Committee in Georgia Mining Association Atlanta USA, POSUN of SE USA, USHA, worked as Hon. Jt. Secretary CVM.
▶	Er. P. H. Rana	Ex. Member Secretary (Ex-Technical) GEB
▶	Er. Pareshbhai Thakar	M.D, Buildquick, Well known Building Contractor of Anand
▶	Er. Pradeep Patel	CEO Comfy (Furnishers & Interior Designers) , Vallabh Vidyanagar
▶	Er. Prayaswinbhai B. Patel	MD of M/s ELECON Engineering co. V.V.Nagar
▶	Prof. R. C. Desai	Ex.-Honorary Secretary CVM, Ex Principal of BBIT VVNagar, Director Dr. H.M.Patel Career Development Cell VVNagar
▶	Dr. R. N. Vakil	Former Director and President, CEPT Ahmedabad
▶	Er. Vithalbhai M. Patel	Worked in PWD Gujarat State, Member of many Committees of Government of Gujarat, worked as Hon. Jt. Secretary CVM
	Er. A. C. Patel	Modern Construction Co.

Ahmedabad

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NAAC

5. CONCLUSION

Additional Information :

A unique achievement of BVM is the award of academic autonomy by the UGC from the academic year 2015-16. Outcome-Based Education is practiced at BVM. Utmost importance is given to curriculum design & development, pedagogy and evaluation system. The high academic standards of the Institute is endorsed by NBA accreditation of 4 UG programs (tier-II), autonomous status by UGC, high admission ranks, and NIRF ranking. Institute got Bharatiya Vidya Bhavan National Award-2019 for an engineering college having an overall best performance by Indian society of Technical Education, and best student support activities by Gujarat Technological University.

BVM Engineering College has a lush green campus with infrastructural facilities, state of the art laboratories, computer centres, communication facilities, seminar and conference halls, air-conditioned auditorium, 24x7 wi-fi, etc. Institute library has over 45000 titles, printed and online reputed journals, collection of electronic courseware, digital library with supporting reprographic facilities for the students and faculties. Institute also facilitates testing and consultancy, design and development projects, R & D activities, environment & energy audit, continuing education programs, etc.

Co-curricular activities are carried out through the National and International professional chapters like ISTE, IEEE, IGS, ICI, CSI, IE, MES, ACI, IRCI and RSI. Institute conducts seminars, conferences, workshops, conventions, and faculty as well as staff development programs. Institute faculty and students fetched many accolades at the national, state and regional level in curricular, extra-curricular and co-curricular activities. Institute achieved top three positions almost in all branches at university results as well as in co-curricular and extra-curricular activities.

To support nation-building through state-of-the-art teaching, learning and mentoring, Institute has established five Centers of Excellence in the emerging field of Engineering and Technology. Institute has also signed MoUs with twelve Foreign Universities to provide ample opportunities of enrichment and exposure through interactions with international experts and leaders of these universities.

The luminaries who visited the campus include late Dr. A P J Abdul Kalam, Honourable Prime Minister Shri Narendra Modi, Dr. Sam Pitroda, Smt. Rajashree Birla, Dr. Anil Naik, Dr. D P Agarwal, Dr. R S Nirjar, Dr. Bhatkar and Dr. Verghese Kurien, etc.

Concluding Remarks :

In order to have sustainable achievements in academics and research, institute has set goals for Academic and Infrastructural Developments as mentioned below:

- Institute intent to motivate all faculties to complete their Ph.D. qualification
- Institute has long term plan to have Autonomous Technical University status from UGC. This will help us to establish multidisciplinary center to offer innovative, flexible PG, PhD Programs on high demand areas for simulating and vibrant learning experience
- To be an institute that is sought for international collaborations leading to exchange of students and faculty to have joint degree programs and twinning programs. Institute is planning strategy for admitting

NRI/Foreign National Students, with proper approval from concerned authorities.

- To enhance collaboration with industries, Institute is planning to have industries sponsored chair professors in various programs.
- Institute is planning to start more Industry Sponsored Laboratories and Center of Excellences in upcoming technologies and also Institute is planning to strengthen existing Center of Excellence by getting NABL accreditation for providing testing services to society.
- Institute is planning to strengthen incubation, innovation, start-up activities in engineering & Technology disciplines by establishing adequate infrastructure in the form of Technology business incubation centers.

With the active support of all stake holders and the blessing s of visionaries who envisioned BVM, the institute hope to realize all set goals to reach greater heights as an excellent center of education, primarily catering the aspirations of rural youth, meeting the global educational standards.

NAAC accreditation with very good grades could be one of the steps to realize the vision of BVM "**Produce globally employable innovative engineers with core values**".