

# **Birla Vishvakarma Mahavidyalaya**

(Engineering College)

(An Autonomous Institution)

Managed by Charutar Vidyamandal

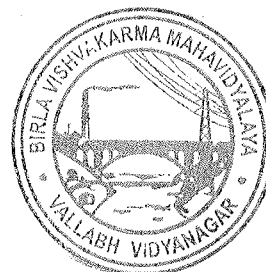
Vallabh Vidyanagar, Anand, Gujarat

## **EXTERNAL PEER REVIEW REPORT**

Academic Year	2024-25
Date of Report	13.01.2026
Institute Name:	Birla Vishvakarma Mahavidyalaya (Engineering College)
Address	Vallabh Vidyanagar, Anand, Gujarat -388120

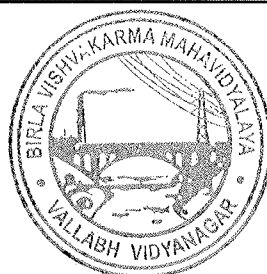
### **Composition of IQAC Peer Team Members for Review:**

Sr. No.	Name	Designation
1.	Dr. Jignesh Arvindbhai Amin	Professor, School of Engineering & Technology, Gujarat Technological University, Ahmedabad
2.	Dr. Vijay Chaudhary	Professor, Department of Mechanical Engineering, C S Patel Institute of Technology, Dean- Faculty of Technology & Engineering CHARUSAT, Changa
3.	Dr. Mukesh Bulsara	Professor, Mechanical Engineering Department, GCET, Convener – IQAC, The CVM University, Vallabh Vidyanagar



### Institutional Information:

1.	<b>Name and Address of College</b>	Birla Vishvakarma Mahavidyalaya (Engineering College) Vallabh Vidyanagar, Anand, Gujarat, India		
2.	<b>Contact details</b>	02692-230104		
3.	<b>Affiliating University</b>	Gujarat Technological University, Ahmedabad, Gujarat, India		
4.	<b>Included in Section 2(f)</b>	Yes		
5.	<b>Included under 12 (B)</b>	Yes		
6.	<b>Year of establishment of college</b>	1948		
7.	<b>Vision</b>	Produce globally employable innovative engineers with core values.		
8.	<b>Mission</b>	<ul style="list-style-type: none"> <li>• Re-engineer curricula to meet global employment requirements.</li> <li>• Promote innovative practices at all levels.</li> <li>• Imbibe core values.</li> <li>• Reform policies, systems and processes at all levels.</li> <li>• Develop faculty and staff members to meet the challenges.</li> </ul>		
9.	<b>List of Programmes offered</b>	01	B. Tech. Civil Engineering	
		02	B. Tech. Mechanical Engineering	
		03	B. Tech. Electronics Engineering	
		04	B. Tech. Electrical Engineering	
		05	B. Tech. Computer Engineering	
		06	B. Tech. Production Engineering	
		07	B. Tech. Information Technology	
		08	B. Tech. Electronics & Communication	
		09	P.D.D.C (Mechanical) – Part Time	



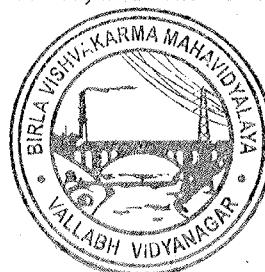
	10	M. Tech. Structural Engineering	
	11	M. Tech. Computer Engineering	
	12	M. Tech. Construction Engineering & Management	
	13	M. Tech. Environmental Engineering	
	14	M. Tech. Machine Design	
	15	M. Tech. Transportation Engineering	
	16	M. Tech. Electrical Engineering	
	17	M. Tech. Infrastructure Engineering and Technology	
	18	M. Tech. Automation and Robotics	

### About Institute:

Birla Vishvakarma Mahavidyalaya (BVM), established in 1948 and managed by Charutar Vidya Mandal, is a premier autonomous engineering institution in Gujarat. Located in a rural setting at Vallabh Vidyanagar, the institute offers total 18 undergraduate and postgraduate programmes. The institute has achieved autonomy in 2015, offering flexible and outcome-based curricula under Gujarat Technological University (GTU). BVM is NAAC 'A' grade accredited (2022-2027), NBA-accredited for Civil, Electronics, Mechanical and Electrical programs (2018-2021), IT(2013-2015), Production (2013-2018) and ranked in Gujarat State Institutional Rating Framework (GSIRF) with 4 star (2022 & 2023) and 5 star (2024 & 2025) and NIRF – 2017 (151-200 band) & NIRF – 2019 (251-300 band) among top engineering institutions in India.

The college successfully utilized a grant of Rs.10 crore and Rs.7 crore under Technical Education Quality Improvement Program (TEQIP) – II & III respectively, funded by The World Bank, Ministry of Human Resource Development & Govt. of Gujarat. BVM maintains multiple research centers, Center of Excellence and advanced laboratories, promoting interdisciplinary research, publications and innovation. The institution has signed MoUs with 14 international & national universities and several national industry partners, facilitating internships, collaborative projects and student exchange programs.

The institute has earned several prestigious awards, including Bhartiya Vidya Bhavan National Award (2019) for the best-performing engineering college by ISTE, New Delhi, Best Student Support Activities Award by GTU, Gujarat, and Appreciation award by BRICS+ University Association 2024. BVM NPTEL Local Chapter has achieved rank nationally from A to AAA rating in different periods. It has been recognized by the Government of Gujarat for excellence in start-up and innovation. The institute received the Educational Excellence Award at the Grand Education Fair 2018, secured ₹1.2 Crores grant under SSIP 1.0 & 2.0, and was honored for hosting



the Smart Gujarat Hackathon and Industrial Hackathon, reflecting its strong focus on entrepreneurship and innovation.

All statutory committees and institutional cells including Board of Governance (BoG), Academic Council, Finance Committee, Board of Studies, Internal Complaints Committee (ICC), Anti-Sexual Harassment Committee, Socio-Economically Disadvantaged Groups (SEDGs) Cell, Anti Ragging Committee, Grievance Redressal Committee constituted and functioning as per UGC and AICTE guidelines.

The Internal Quality Assurance Cell (IQAC) at BVM serves as a driving force for sustaining quality culture and continuous improvement in academic and administrative processes. It is constituted as per NAAC guidelines and includes senior administrators, faculty representatives, external experts, industry representatives, alumni and student members.

BVM's alumni network of 30,000+ graduates contribute through mentorship, placements and institutional support. 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 (MD 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.

Student professional chapters such as IEEE (Institute of Electrical and Electronics Engineers), CSI (Computer Society of India), ISTE (Indian Society for Technical Education), IEI (Institution of Engineers – India), GDG (Google Developer Group), MLSA (Microsoft Learn Student Ambassadors), TRS (The Robotics Society), and TSA (The Space Association) & other clubs actively support technical skill development and student engagement. BVM students have won accolades in state and national robotics competitions, hackathons and technical events, reflecting excellence in practical learning and innovation.

With a strong focus on ethical values, social responsibilities, environmental sustainability and inclusive growth, BVM combines quality education, research, industry engagement and holistic student development, preparing engineers to meet global challenges with competence, integrity and innovation.



## Peer Team Observations:

### Academic Excellence and Teaching–Learning Processes:

The institution has demonstrated a strong commitment to academic excellence through:

- Implementation of Outcome-Based Education (OBE) with curriculum aligned to AICTE, GTU, industry, alumni inputs and NEP 2020 guidelines.
- Mapping of COs, POs, PSOs and PEOs ensuring outcome-oriented learning.
- Student-centric teaching through laboratory based learning, projects, internships and problem-solving approaches.
- ICT-enabled blended learning using LMS, smart classrooms, virtual labs and digital platforms.
- The syllabi are periodically updated with inputs from industry experts, alumni and academic peers.
- Value-added courses, skill-oriented programs and interdisciplinary components are integrated to enhance employability and holistic development of students.
- Continuous and transparent internal evaluation aligned with Bloom's taxonomy.

The peer team notes effective curriculum delivery supported by tutorials, mentoring and remedial measures for slow learners, along with enrichment programs for advanced learners.

### NEP 2020 Implementation:

BVM is actively implementing NEP 2020 guidelines to prepare students for 21st-century challenges by incorporating following:

- Minor Degrees in Data Science, and Embedded Systems & IoT
- Honours Programs in Data Science and Analytics, Semiconductor Chip Design, VLSI Design and Testing, Structural Engineering, Geotechnical Engineering, Infrastructure Engineering, Electrical and Computer Engineering, Robotics and Smart Manufacturing
- Professors of Practice for industry exposure and to strengthen faculty-industry collaboration.
- Skill based courses and Humanity courses are offered in all level.
- Multi-entry, Multi-exit programme structure is designed.
- MOOCs and NPTEL courses are integrated with credit transfer provisions to promote flexible and self-paced learning. Total 827 students have availed MOOCs/NPTEL credit transfer for 109 courses during the academic year 2024–25, reflecting effective implementation of flexible learning pathways.
- More than 12 international academic partnerships facilitate student and faculty exchanges, global courses, and certifications; during 2024–25, 18 students gained international exposure through programs at Ural Federal University, Russia, and Wismar University, Germany.



The Peer Team noted that Minor and Honours Programs in emerging areas, supported by Professors of Practice and skill-based courses, effectively align academics with industry and NEP-2020.

#### **Faculty Profile and Academic Environment:**

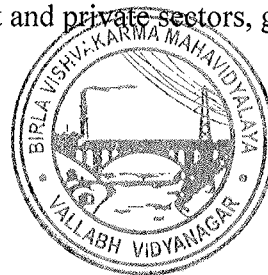
- Highly qualified and committed faculty with an average teaching experience of around 15 years with high retention ratio.
- More than 55% of faculty members are Ph.D. holders, contributing to strong academic and research culture.
- Faculty members are actively involved in curriculum planning, teaching delivery, assessment reforms, and student mentoring under the autonomous framework.
- Conducive academic environment promoting effective teaching-learning and active student engagement.
- Deputation of faculty with full pay for higher education to IITs and other premier institutions.
- Faculty members & technical staff are encouraged to attend seminars, training sessions and pedagogical workshops.
- Faculty-Student ratio is maintained.

The Peer Team observed that the institution has a highly qualified and committed faculty members, a robust academic ecosystem, and a strong quality culture that effectively supports outcome-based education and continuous institutional improvement.

#### **Research and Innovation:**

BVM promotes research-oriented culture through:

- Faculty publications in reputed journals and conferences, with notable research outputs and patents.
- Funded research projects supported by TEQIP, AICTE, GUJCOST, NVIDIA, SSIP and other agencies.
- Active Research & Development Cell and Center of Excellence (CoEs) covering key domains such as Antenna Testing, Geospatial Technologies, Robotics, Digital Manufacturing, Electric Vehicles, Renewable Energy, Biomedical Instrumentation, Semiconductor Technologies, Artificial Intelligence & Machine Learning, High-End Computing, Cyber Security and Language Learning.
- NABL-accredited laboratories supporting consultancy and testing services.
- Student engagement in innovation activities such as Hackathon, Project Expo, Open House and State & National level technical competitions.
- Faculties are actively involved to publish research papers in refereed journals and secure external grants and seed funding for research activities.
- Consultancy projects have been completed for government and private sectors, generating



revenue of ₹77.37 lakhs for the financial year 2024-25 and ₹90.87 lakhs for the financial year 2023-24.

The Peer Team observed a robust research ecosystem with faculty publications, funded projects, Centers of Excellence and NABL-accredited labs supporting innovation and consultancy.

### **Infrastructure and Learning Resources:**

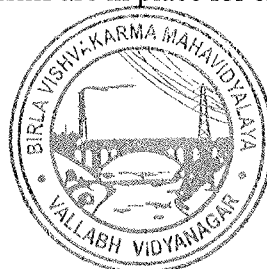
The institution is equipped with:

- Well-developed infrastructure including 68 classrooms, 92 laboratories, workshops and ICT-enabled teaching facilities.
- 10 well established Center of Excellence in emerging areas.
- NABL-accredited laboratories and modern workshops.
- Adequate learning resources including a modern central library, e-journals, titles and digital databases.
- Advanced computing and digital learning resources supporting academic and research activities.
- Separate hostels for boys and girls with modern amenities.
- A dedicated Training and Placement Cell, attracting 100+ corporates annually.
- 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.
- Green campus initiatives promoting environmental awareness and sustainable practices.

The peer team appreciates the maintenance and augmentation of infrastructure carried out by institute through systematic planning and budgeting.

### **Student Support, Training and Placement:**

- The institute achieves admissions with a significant intake of high-merit ranked students.
- Admission of International Students through Indian Council for Cultural Relations (ICCR)
- Wide-ranging student support system including scholarships (2024-25: Government scholarship - 1.86 crores & Private and NGO scholarship - 20 lakhs) to different students
- Remedial measures for Slow learners and lateral entry students
- Career guidance through GATE coaching, higher education support, placement training and a well-functioning Training and Placement Cell.
- Consistent placement performance with over 300 students placed annually and a healthy progression of students opting for higher studies.
- Know-How, Industry Readiness Training Program and Skill Enhancement Program is organized every year.
- Structured mentoring and grievance redressal mechanisms are in place for ensuring student well-being.



- Active alumni association contributing to student mentoring and support for MOOCs and professional development.
- SSIP Cell nurtures the idea of entrepreneurship among the students.
- Vibrant student life promoted through sports, cultural activities, NCC, NSS, Yoga and co-curricular engagements.
- Students encouraged to engage in technology based social work at adopted villages in the College vicinity.
- Strong emphasis on inclusiveness, gender equity, social responsibility and promotion of Indian culture, leading to appreciable student progression to higher education and employment.

The Peer Team appreciated the well-structured Training and Placement Cell and Industry–Institute Interaction (III) Cell, which effectively facilitate internships, industrial training, expert lectures, and placement-oriented activities. The consistently strong placement performance reflects high industry relevance of academic programs and effective student preparedness.

#### **Alumni Engagement:**

- Active and registered Alumni Association contributing to academic and institutional development with 16000+ members.
- Alumni participation in curriculum enrichment through feedback, expert talks and industry inputs.
- Alumni support in student mentoring, career guidance and professional networking.
- Financial and logistical support from alumni for student initiatives, MOOCs reimbursement, scholarships and infrastructure development.
- Alumni involvement in internships, placements and strengthening Industry–Institute collaboration.

The Peer Team observed strong alumni engagement contributing to academics, mentoring, placements, curriculum feedback and institutional development, thereby enriching the academic ecosystem and student motivation.”

#### **Governance and Management:**

The governance structure of BVM is participative and transparent for the overall development and progress of Institute which is evident from the following:

- Board of Governance (BoG) is constituted according to the statutory provisions. BoG meetings conducted four times a year in a fair and transparent manner, with members (Dr. D. P. Aggrawal - Former Chairman UPSC and Chairman, PG Board, AICTE, Dr. D. Narasimha Reddy - Former VC, Jawaharlal Nehru Technological University, Hyderabad, Dr. Anupam Shukla - Director, Sardar Vallabhbhai National Institute of Technology





(SVNIT), Er. B. M. Vyas - former Managing Director, Gujarat Cooperative Milk Marketing Federation (GCMMF), Er. Surendrabhai M. Patel – Former MP).

- The Minutes of BoG, AC meetings, Annual Reports and other important documents are uploaded on College Website regularly.
- BVM implements IDP aligned with its vision, mission and benchmarks to ensure quality and holistic growth.
- Decentralized and participative governance empowers departments and faculty in decision making.
- Faculty performance appraisal and continuous development promote academic excellence and innovation.
- ERP-based e-governance systems in academic and administrative processes, ensuring efficiency, transparency, and accountability in institutional functioning.
- Transparent financial and administrative processes strengthen trust and integrity across stakeholders.

#### **Institutional Values and Good Practices:**

- Industry-Institute-Interaction:
  - Nominated representatives of industry in BoG, AC, IQAC and BoS contribute to the collaborative efforts for enhancing the learning levels of the graduates.
  - Conducting Annual project expo- Exhibition of research projects of UG/PG students, industrial visits, internship in coordination with industries.
  - 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.
- Testing and consultancy work by various departments resulting in good internal revenue generation (IRG)
- Students are securing excellent placements and opportunities for higher studies, reflecting a strong placement and higher education success rate.
- The institute fosters collaborative peer-to-peer learning, encouraging students to share knowledge and learn from each other.
- Strong Alumni support for infrastructure development & student development.
- Well-established Centers of Excellence encompassing major emerging domains.
- Green campus initiatives and energy conservation
- Gender equity and inclusiveness

The institute actively promotes ethical values, environmental sustainability and social responsibility through green initiatives, energy conservation and inclusive policies. Strong industry–institute interactions enhance practical learning and employability for students.



### The IQAC Peer Team recommendations:

While appreciating the overall performance of the institution, the Peer Team offers the following recommendations for further enhancement:

- Continuous Upgradation of Laboratories with state of art facilities
- Enhancing quality research and consultancy
- Further integration of NEP 2020 initiatives
- Continuous upskilling of faculty and students
- Strengthening international academic collaborations

The IQAC Peer Team concludes that Birla Vishvakarma Mahavidyalaya (Engineering College) demonstrates a strong quality culture, complies with the mandatory requirements prescribed by the UGC and is well positioned to achieve higher benchmarks in academic and research excellence. The institution has effectively utilized its autonomy and is poised to further strengthen its academic reputation at the regional and national levels. The Peer Team congratulates the Management, faculty, staff, and students for their collective efforts and wishes the institute continued success in its pursuit of excellence.

**Prepared and Submitted by:**  
IQAC Peer Team

*JMA*  
*13/01/2026*

**Dr. Jignesh A. Amin**  
Professor,  
School of Engineering &  
Technology,  
Gujarat Technological  
University,  
Ahmedabad

*VJ*

**Dr. Vijay Chaudhary**  
Professor,  
Department of Mechanical  
Engineering,  
C S Patel Institute of  
Technology,  
Dean- Faculty of Technology  
& Engineering  
CHARUSAT, Changa

*Mukesh Bulsara*  
*13/01/26*

**Dr. Mukesh Bulsara**  
Professor, Mechanical  
Engineering Department,  
GCET,  
Convener – IQAC, The CVM  
University,  
Vallabh Vidyanagar

**Date:** 13.01.2026  
**Place:** Vallabh  
vidyanagar

