



**INSTITUTIONAL ASSESSMENT AND ACCREDITATION
(Effective from July 2017)**

Accreditation - (Cycle - 1)

**PEER TEAM REPORT ON
INSTITUTIONAL ACCREDITATION OF
BHARATI VIDYAPEETH'S COLLEGE OF ENGINEERING, LAVALE,
PUNE
C-41597**

**Lavale Pune
Maharashtra
412115**

**NATIONAL ASSESSMENT AND ACCREDITATION COUNCIL
An Autonomous Institution of the University Grants Commission
P.O. Box No. 1075, Nagarbhavi, Bengaluru - 560 072, INDIA**

Section I:GENERAL INFORMATION

1.Name & Address of the institution:	BHARATI VIDYAPEETH'S COLLEGE OF ENGINEERING, LAVALE, PUNE Lavale Pune Maharashtra 412115	
2.Year of Establishment	2012	
3.Current Academic Activities at the Institution(Numbers):		
Faculties/Schools:		
Departments/Centres:	4	
Programmes/Course offered:	1	
Permanent Faculty Members:	46	
Permanent Support Staff:	47	
Students:	901	
4.Three major features in the institutional Context (Asperceived by the Peer Team):	1. Transformation of the Society through dynamic education 2. Experienced management for mentoring 3. Sufficient infrastructure facilities for teaching and learning	
5.Dates of visit of the Peer Team (A detailed visit schedule may be included as Annexure):	From : 17-09-2018 To : 18-09-2018	
6.Composition of Peer Team which undertook the on site visit:		
	Name	Designation & Organisation Name
Chairperson	DR. KUMAR VELLANKI	FormerVice Chancellor,JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY KAKINADA
Member Co-ordinator:	DR. AMIYA KUMAR RATH	Director,COLLEGE OF ENGINEERING BHUBANESWAR
Member:	DR. DHAVAL PUJARA	Professor,Nirma University
NAAC Co - ordinator:	Dr. B.s. Ponmudiraj	

Section II: CRITERION WISE ANALYSIS

Observations (Strengths and/or Weaknesses) on each qualitative metrics of the key Indicator under the respective criterion (This will be a qualitative analysis of descriptive nature aimed at critical analysis presenting strength and weakness of HEI under each criteria)

Criterion1 - Curricular Aspects (Key Indicator and Qualitative Metrics(QIM) in Criterion1)	
1.1	Curricular Planning and Implementation
1.1.1 QIM	The institution ensures effective curriculum delivery through a well planned and documented process
1.2	Academic Flexibility
1.3	Curriculum Enrichment
1.3.1 QIM	Institution integrates cross- cutting issues relevant to Gender, Environment and Sustainability, Human Values and Professional Ethics into the Curriculum
1.4	Feedback System

Qualitative analysis of Criterion 1

Bharati Vidyapeeth's College of Engineering Lavale, Pune was established in 2012 by the Bharati Vidyapeeth. It is affiliated to Savitribai Phule Pune University and having 10 acres of land. The college runs four branches of engineering viz., Civil, Computer, E & TC, and Mechanical with an intake of 60 each. There are 15 class rooms and three seminar halls besides a drawing hall. The curriculum is designed by affiliating university and has little flexibility for the institute. Stakeholders like the students, alumni, industry experts are contributing to the up gradation of curriculum based on feedback system to add some electives courses. The institution ensures proper implementation of the curriculum by proper planning and constant monitoring and evaluation. The academic calendar is prepared in line with the academic calendar of the affiliating university. The institution should collect the feedback from various stakeholders regarding the curriculum and communicate the same to the university for inclusion in the syllabus. Facilities exist in most of the laboratories and departments as per the norms of the regulatory authority. The ICT enabled modern class rooms are available for all the departments. MHRD programs like SWAYAM on MOOCs platform, NPTEL, supplement and add value to the curriculum. In addition, the Institution teaches German language. Many programmes like Stadd Pro, Robotics, IoT are conducted to enrich the knowledge of the students. Experts are invited to deliver lectures on Tenders, Solid waste management of smart cities and transportation engineering. The institution may put additional efforts to organise more personality and soft skill development programmes for the need of the rural students.

Criterion2 - Teaching-learning and Evaluation (Key Indicator and Qualitative Metrics(QIM) in Criterion2)	
2.1	Student Enrollment and Profile
2.2	Catering to Student Diversity
2.2.1 QIM	The institution assesses the learning levels of the students, after admission and organises special programs for advanced learners and slow learners
2.3	Teaching- Learning Process
2.3.1 QIM	Student centric methods, such as experiential learning, participative learning and problem solving methodologies are used for enhancing learning experiences
2.3.4 QIM	Innovation and creativity in teaching-learning
2.4	Teacher Profile and Quality
2.5	Evaluation Process and Reforms
2.5.1 QIM	Reforms in Continuous Internal Evaluation(CIE) system at the institutional level
2.5.2 QIM	Mechanism of internal assessment is transparent and robust in terms of frequency and variety
2.5.3 QIM	Mechanism to deal with examination related grievances is transparent, time-bound and efficient
2.5.4 QIM	The institution adheres to the academic calendar for the conduct of CIE
2.6	Student Performance and Learning Outcomes
2.6.1 QIM	Program outcomes, program specific outcomes and course outcomes for all programs offered by the Institution are stated and displayed on website and communicated to teachers and students
2.6.2 QIM	Attainment of program outcomes, program specific outcomes and course outcomes are evaluated by the institution
2.7	Student Satisfaction Survey

Qualitative analysis of Criterion 2

The admissions of the Institution are as per the state government rules. Reservation policy and admission procedure is structured as per the norms. The students are admitted from other states also. Special coaching and remedial classes for slow learners are conducted. Advanced learners are encouraged to take specialized coaching such as GATE and GRE. The students are also encouraged to take up special research projects on innovative technology. The college invites experts to take classes, deliver talks on emerging areas. Teacher guardian mentor system is in existence. Institution provides learning resources via its proprietary Learning Management System (LMS). Various methods of teaching learning are used. Information and Communication Technology is used for the academic activities. The faculty members having Ph.D. degree are less and they should be encouraged to complete at the earliest. Retention rate of both teaching and non-teaching is good. The institution follows the POs and COs designed by the SPPU. However, the mapping of POs and Cos, their correlation and attainment of POs through COs are to be done by all the faculty members. The practice of outcome based education is to be strengthened.

Criterion3 - Research, Innovations and Extension (Key Indicator and Qualitative Metrics(QIM) in Criterion3)	
3.1	Resource Mobilization for Research
3.2	Innovation Ecosystem
3.2.1 QIM	Institution has created an ecosystem for innovations including incubation centre and other initiatives for creation and transfer of knowledge
3.3	Research Publications and Awards
3.4	Extension Activities
3.4.1 QIM	Extension activities in the neighbourhood community in terms of impact and sensitising students to social issues and holistic development during the last five years
3.5	Collaboration

Qualitative analysis of Criterion 3

The Institution has taken membership of several professional bodies like, ISHRAE, FSAI, ISH, ISTE, BAI, CII, CSI, IPA for professional development of the students and the faculty members. The Institution has received a small grant (Rs. 49,000/-) for research consultancy. The Institution has set-up a Skill Development Centre on the campus. However, the activities of this Centre need to be enhanced. The Institution has very limited activities in the domain of Research, Innovations and Extension. The faculty members have contributed research papers mainly in conferences and hardly a few papers in peer reviewed quality journals. The Institution has initiated a few extension activities through NSS. The students have participated in Blood Donation Camp, Tree Plantation, Eye Donation Pledge, basic computer training for the students of nearby villages. The Institution needs to put emphasis in R & D activities by way of having a structured Research Policy, promoting research by providing seed grant and conducive environment for research, creating necessary research infrastructure, providing incentives to the faculty members for outstanding research contribution, etc. Majority of the faculty members are not having Ph.D. degree, nine are enrolled. However, remaining teachers should be motivated to enrol for the Ph.D. programme. The faculty members with Ph.D. qualification should be motivated to take up research projects and consultancy from the government agencies and industries. Exclusive Research Orientation programmes should be arranged for the faculty members on regular basis. The faculty members need to be familiarised with the intellectual property rights by way of organising training programmes / workshops. The faculty members and the students should be motivated to apply for the state/ national level awards/fellowship. The Institution needs to start interactions with the industries by way of establishing the Industry Institute Interaction Cell. The Institution should also set-up Incubation Centre for creation and transfer of new knowledge. The college has a few linkages and collaborations which results in arranging internships and industrial training for the students. However, these collaborations should be strengthened by way of having activities.

Criterion4 - Infrastructure and Learning Resources (Key Indicator and Qualitative Metrics(QIM) in Criterion4)	
4.1	Physical Facilities
4.1.1 QIM	The institution has adequate facilities for teaching- learning. viz., classrooms, laboratories, computing equipment, etc.
4.1.2 QIM	The institution has adequate facilities for sports, games (indoor, outdoor),gymnasium, yoga centre etc., and cultural activities
4.2	Library as a Learning Resource
4.2.1 QIM	Library is automated using Integrated Library Management System (ILMS)
4.2.2 QIM	Collection of rare books, manuscripts, special reports or any other knowledge resources for library enrichment
4.3	IT Infrastructure
4.3.1 QIM	Institution frequently updates its IT facilities including Wi-Fi
4.4	Maintenance of Campus Infrastructure
4.4.2 QIM	There are established systems and procedures for maintaining and utilizing physical, academic and support facilities - laboratory, library, sports complex, computers, classrooms etc.

Qualitative analysis of Criterion 4

The Institution has required number of classrooms, laboratories, seminar halls, drawing hall, workshop, open-air theatre, playground, canteen and hostel facility. The total instructional area is 7145 Sq. M. (including workshop, computer centre, library, committee room and seminar hall). The LCD facility is available in classrooms. The Institution has a playground and some facility for indoor games like carom, table tennis and chess. A Physical Director is appointed to look after the games and sports activities of the Institute. However, the Institution should strengthen the facilities for the outdoor games. There is a Library with books and other primary facilities. The library is partially automated. The Rare Books, Manuscripts and Special Reports are not available. The library should procure necessary e-resources, especially e-journals. Average number of walk in per day in library is low and the institution should take necessary actions in this direction. The Institute has 32 Mbps system for Wi-Fi and LAN on the campus. Facilities for e-content development may be set-up. The basic software required for the UG programmes are procured from the original manufacturer. The Institution needs to increase and update the IT infrastructure (both hardware and software) on continuous basis. For regular cleaning of the building, an external agency is appointed. The Institution runs eight buses for transportation of the students and the faculty members from different areas of the city. Laboratory equipment maintenance is done by each department. However, the purchase, maintenance and dead stock records in laboratories / computer centre need to be updated regularly.

Criterion5 - Student Support and Progression (Key Indicator and Qualitative Metrics(QIM) in Criterion5)	
5.1	Student Support
5.2	Student Progression
5.3	Student Participation and Activities
5.3.2 QIM	Presence of an active Student Council & representation of students on academic & administrative bodies/committees of the institution
5.4	Alumni Engagement
5.4.1 QIM	The Alumni Association/Chapters (registered and functional) contributes significantly to the development of the institution through financial and non financial means during the last five years

Qualitative analysis of Criterion 5

The Institution has taken initiation to arrange for the students and faculty members for higher education abroad. Only two faculty members are pursuing further studies abroad with assistantship from the foreign university. The Institution arranges for soft-skill development, career counselling, foreign language learning and personality enhancement sessions for the students by inviting external experts. This would help them during placement as well as for further education. Apart from regular teaching-learning sessions, students are provided mentoring for various co-curricular and extra-curricular activities. These activities are important for the students' all-round development. The students participate in inter-collegiate, intra- and inter-university sports tournaments and cultural competitions. They have also won a few prizes in such tournaments and competitions. The students receive financial assistance from the Government especially for SC/ST, OBC and economically weaker sections. However, college needs to provide financial assistance to economically poor students. Different committees are in place such as Anti-Ragging Committee, Grievance Redressal Committee and Internal Complaints Committee. A counsellor is appointed to help students to deal with psychological and emotional issues. Music classes are conducted once in week for all students. The Institution has taken steps to take membership of different professional societies. Around 324 students enrolled in membership of different professional societies. The Institution has taken initiation to submit the application for registration of Alumni Association. A few alumni visited the campus for sharing their professional experiences for skill development of the students in their respective departments. Alumni contributed Rs. 5,22,000/- for the infrastructural development. The NSS Cell is active in campus. The Cell conducts various activities for the benefit of the society. The Institution has just taken initiatives to start earn and learn scheme which is approved by the University. Students actively participate in sports and cultural activities and laurel prizes in different events.

Criterion6 - Governance, Leadership and Management (Key Indicator and Qualitative Metrics(QIM) in Criterion6)	
6.1	Institutional Vision and Leadership
6.1.1 QIM	The governance of the institution is reflective of an effective leadership in tune with the vision and mission of the institution
6.1.2 QIM	The institution practices decentralization and participative management
6.2	Strategy Development and Deployment
6.2.1 QIM	Perspective/Strategic plan and Deployment documents are available in the institution
6.2.2 QIM	Organizational structure of the institution including governing body, administrative setup, and functions of various bodies, service rules, procedures, recruitment, promotional policies as well as grievance redressal mechanism
6.2.4 QIM	Effectiveness of various bodies/cells/committees is evident through minutes of meetings and implementation of their resolutions
6.3	Faculty Empowerment Strategies
6.3.1 QIM	The institution has effective welfare measures for teaching and non-teaching staff
6.3.5 QIM	Institution has Performance Appraisal System for teaching and non-teaching staff
6.4	Financial Management and Resource Mobilization
6.4.1 QIM	Institution conducts internal and external financial audits regularly
6.4.3 QIM	Institutional strategies for mobilisation of funds and the optimal utilisation of resources
6.5	Internal Quality Assurance System
6.5.1 QIM	Internal Quality Assurance Cell (IQAC) has contributed significantly for institutionalizing the quality assurance strategies and processes
6.5.2 QIM	The institution reviews its teaching learning process, structures & methodologies of operations and learning outcomes at periodic intervals through IQAC set up as per norms
6.5.5 QIM	Incremental improvements made during the preceding five years (<i>in case of first cycle</i>) Post accreditation quality initiatives (<i>second and subsequent cycles</i>)

Qualitative analysis of Criterion 6

The Institution has experienced management to provide leadership at the top. The top and middle level leadership are focused about working towards the vision of the Institute. The education imparted at the Institute is in line with the requirements of the regulatory bodies. The institute organises job fair on the campus. The income, expenditure and operation of the Institution are monitored through Internal as well as external audit mechanism. Various welfare measures are taken by the Institution for the teaching and non-teaching staff. The regular staff members are covered under a health scheme and they get free treatment at Bharati Hospital. There is a hospital on the campus for immediate consultation. The Institute has taken a group insurance covering all the regular employees. The regular staff members are entitled to Medical Leave, Maternity Leave and Paternity Leave. All regular staff members are entitled to Employees' Provident Fund (EPF). However, EPF is provided to very few staff members. The performance of the faculty members is assessed through the Academic Performance Indicator (API). This API reports of all the faculty members go to the Principal and then to the Management with his remarks. Apart from these, the Principal have informal

talks with students directly to know their views about faculty members in their department. The institute should strengthen the faculty development programmes and provide full support to the faculty members for attending national / international conferences/workshops/events. Five year Strategic Plan of the College is to be prepared and circulated to all the stakeholders.

Criterion7 - Institutional Values and Best Practices (Key Indicator and Qualitative Metrics(QIM) in Criterion7)	
7.1	Institutional Values and Social Responsibilities
7.1.2 QIM	<p>1. Institution shows gender sensitivity in providing facilities such as:</p> <ol style="list-style-type: none"> 1. Safety and Security 2. Counselling 3. Common Room
7.1.5 QIM	<p>Waste Management steps including:</p> <ul style="list-style-type: none"> • Solid waste management • Liquid waste management • E-waste management
7.1.6 QIM	Rain water harvesting structures and utilization in the campus
7.1.7 QIM	<p>Green Practices</p> <ul style="list-style-type: none"> • Students, staff using <ol style="list-style-type: none"> a) Bicycles b) Public Transport c) Pedestrian friendly roads • Plastic-free campus • Paperless office • Green landscaping with trees and plants
7.1.18 QIM	Institution organizes national festivals and birth / death anniversaries of the great Indian personalities
7.1.19 QIM	The institution maintains complete transparency in its financial, academic, administrative and auxiliary functions
7.2	Best Practices
7.2.1 QIM	Describe at least two institutional best practices (as per NAAC Format)
7.3	Institutional Distinctiveness
7.3.1 QIM	Describe/Explain the performance of the institution in one area distinctive to its vision, priority and thrust

Qualitative analysis of Criterion 7

The Institution is vigilant about gender sensitivity, environmentally green practices, human values and

professional ethics and makes efforts in inculcating these values in its students, staff members and society. There is a Grievance Redressal Committee and Internal Complaints Committee to facilitate reporting and redressal of any gender related issue. Principal ensures that the issue is addressed. The Institute has a practice of treating and recycling liquid and solid waste, using energy efficient lighting and equipment, provide public transport to reduce the carbon footprint. The Institute, through students' participation, also carries out societal activities in surrounding villages. A hospital under the Bharati Vidyapeeth's trust is available near the campus for immediate medical attention. The Institution has its own sewage treatment plant. Whatever sewage is generated on the campus is treated and then used for watering of plants in the garden. All the paper waste generated on the campus is collected and is taken to government approved agency periodically, for converting it into pulp and used as raw material for recycled paper. The Institution promotes use of public transport and runs bus services through various parts of the City. Majority of the students, faculty members and supporting staff commute by these buses. Private vehicles are not allowed beyond parking area, promoting all internal movement on foot. The Institution building is located in a very green surroundings. There are several trees and plants available on the campus.. Tree plantation is a regular activity in the College. Apart from these, measures are taken to reduce energy consumption on the campus. Some of them are, use of natural lighting and ventilation owing to the location and architectural design of the building. Use of LED lights replacing majority of the CRT monitors by LCD/ TFT monitors.

Section III: OVERALL ANALYSIS based on Institutional strengths, Weaknesses, Opportunities & Challenges (SWOC) (up to 500 words)

Overall Analysis

Strength:

Strengths:

- Experienced management for mentoring
- Brand image of the management
- Young and motivated faculty members
- Modern, well maintained infrastructure facilities, amenities with serene environment
- Efforts to teach German language

Weaknesses:

- Lack of experienced faculty members
- Only a few faculty members with Ph.D. qualifications
- Limited research and extension activities
- Limited publications in quality research journals
- Limited consultancy and project work from the external funding agencies.

Opportunities:

- Brand to be utilized effectively
- Promote online teaching from the mentor University
- Strengthen skill development programmes and Incubation Centre
- Set up research centres on multi-disciplinary areas
- Effective utilisation of Earn and learn schemes

- Sharing of library facilities from other institutes of the society

Challenges:

- Attracting meritorious students
- Attracting and retaining doctoral faculty members with high research credentials
- Establishing in-house research facilities
- Campus placements of all the students with good packages
- Attracting funded projects and collaborations for research activity

Section IV: Recommendations for Quality Enhancement of the Institution

(Please limit to **ten major ones** and use telegraphic language) (It is not necessary to indicate all the ten bullets)

- Faculty members with Ph.D. qualifications to be recruited
- Seed money be provided to the faculty members to start research work
- Encourage the faculty members to submit research projects
- Consultancy activities to be initiated
- Steps to be taken to publish research papers in reputed peer reviewed journals
- Proper documentation and record keeping is required
- Employment oriented new programmes need to be started
- Steps to be taken to place all the students in core industries and also students with non-career background
- HR policy to be transparent and it needs to be communicated to all the faculty and staff members
- ..

I have gone through the observations of the Peer Team as mentioned in this report

Signature of the Head of the Institution

Seal of the Institution

Sl.No	Name		Signature with date
1	DR. KUMAR VELLANKI	Chairperson	
2	DR. AMIYA KUMAR RATH	Member Co-ordinator	
3	DR. DHAVAL PUJARA	Member	
4	Dr. B.s. Ponmudiraj	NAAC Co - ordinator	

Place

Date