



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

**Accreditation - (Cycle - 1)**

**PEER TEAM REPORT ON  
INSTITUTIONAL ACCREDITATION OF  
BAPURAO DESHMUKH COLLEGE OF ENGINEERING, SEVAGRAM**

**Sevagram  
Maharashtra  
442102**

**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:	BAPURAO DESHMUKH COLLEGE OF ENGINEERING, SEVAGRAM Sevagram Maharashtra 442102	
2.Year of Establishment	1983	
3.Current Academic Activities at the Institution(Numbers):		
Faculties/Schools:		
Departments/Centres:	6	
Programmes/Course offered:	11	
Permanent Faculty Members:	73	
Permanent Support Staff:	170	
Students:	1700	
4.Three major features in the institutional Context (Asperceived by the Peer Team):	1. A self-financing institution recognised by UGC under 2(f) and 12(B) 2. The institution provides higher education to socially under privileged and financially weaker students 3. Adequate land available for future expansion	
5.Dates of visit of the Peer Team (A detailed visit schedule may be included as Annexure):	From : 03-09-2018 To : 04-09-2018	
6.Composition of Peer Team which undertook the on site visit:		
	<b>Name</b>	<b>Designation &amp; Organisation Name</b>
Chairperson	DR. ASOK DE	Director,National Institute Of Technology Patna
Member Co-ordinator:	DR. A M SHAH	Vice Chancellor(in-charge),University of Kashmir
Member:	DR. VRINDA TOKEKAR	Professor,Devi Ahilya Vishwavidyalaya
NAAC Co - ordinator:	DR. K. RAMA	

## 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

The college is affiliated to the Rashtrasant Tukadoji Maharaj Nagpur University, Nagpur. It follows the curriculum prescribed by the affiliating University. College faculty actively participate in the curriculum design by attending syllabus design and revision workshops organized by University. The academic calendar issued by the affiliating University is followed. The institution observes the completion of syllabi and implementation of curriculum as per University guidelines. Mentor-Mentee system is in place. A faculty mentors 20 students on an average. The mentor maintains the personal and academic records of the students.

The college supplements the curriculum by organising many programs to sensitize the students with the cross cutting issues relevant to gender, environment and sustainability, human values and professional ethics. Every year the workshops, expert lectures, industrial visits and training programmes are conducted. The college puts efforts for placement and encourages self-employability by conducting Entrepreneurship Development Programmes through T&P cell although much more needs to be done.

The institute obtains feedback from various stakeholders which is analyzed in the direction of content delivery, faculty involvement, quality of teaching and conveyed to the concerned faculty for further necessary action.

The gender equity is well maintained in the college and the grievances of the girl students are addressed. An internal complaint committee exists to address issues related to gender discrimination and sexual harassment. College assigns duties to staff without gender discrimination.

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 institute participates in the Centralized Admission Process conducted by the Directorate of Technical Education, Mumbai and follows the guidelines laid down by DTE. Students admitted are from different backgrounds, cultures and religions. The college organizes orientation programmes for freshers. The learning levels of students are assessed after admissions and special programmes are arranged for slow learners. Remedial classes are conducted for weaker students. Lateral entry students are offered bridge courses to bring them at par with other students.

The quality of teachers is good with 20.54% teachers with Ph .D out of 73 permanent faculty members. Institute has 43 contractual full time faculty members on consolidated salary. Institute encourages faculty to attend national/ international conferences by giving them partial financial support.

Student centric methods such as, experiential learning, participative learning and problem solving methodologies are used for enhancing learning experiences. NPTEL , case studies, industrial training/internships, industrial visits, industry based projects, guest lectures, workshops, mock interview sessions, technical competitions are part of teaching learning process.

Evaluation process framed by the affiliating University is followed. Student performance is monitored continuously through regular unit tests, mid-term practical and oral examinations. Pass percentage in all programmes ranges from 40 – 70 percent. Evaluation process is transparent, answer copies are shown to the

students.

Financially weaker students are supported with scholarships by the State/ Central Governments. The institute needs to provide information about other scholarships offered by government and NGOs in a more effective manner.

Due to the delay in transfer of scholarships of students to the college by the state government, institute is facing problems in paying salary to the faculty and non-teaching staff on time. Sometimes it is delayed by more than a year, although institute is trying its best to cope up with the situation.

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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 college is the Centre for Higher Learning and Research recognised by affiliating University in the subjects of Applied Physics, Chemistry, Mathematics, Electronics Engineering, Electronics and Telecommunication Engineering, Mechanical Engineering and Civil Engineering. The permission of research centres of civil and electronics and telecommunication engineering has been renewed for five years up to 2021. The permission of other centres has expired in January 2018 and the renewals are in the process.

Many Ph.D. degrees have been awarded through nine recognized Ph.D. Guides of the college. Institute provides various facilities to faculty and students for participating in various research activities and for healthy growth of research environment on the campus.

Some faculty members have published/ presented papers in national/ international journals/ conferences. Institute must encourage the faculty to publish papers in refereed/ indexed journals. Some students have also published papers in proceedings of the national conferences organized by the institute. Institute has received some research funding from UGC, AICTE during last couple of years.

The Institution has signed MOUs with several organizations. Institute encourages and promotes consultancy services among faculty members and a policy for revenue sharing exists. Revenue generated from consultancy services is utilized for the up gradation of the institute, and partially distributed among the faculty and staff.

Students actively participate in various co-curricular, extracurricular, Social awareness and Community service programs through departmental forums and NSS. NSS cell organizes blood donation camps and health related awareness programs regularly. NSS Unit of College conducts different activities. Institute conducts many social outreach programs for the neighbourhood community which includes organization of awareness programs for environment, water conservation, computer education, blood donation camps, tree plantation etc. College organizes painting competition "Aalekhan" for giving social messages and international White Cane Day to spread awareness about abilities and disabilities of visually challenged persons.

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

Institute has sufficient infrastructural facilities as per AICTE norms to support teaching-learning, and Research. The college campus is spread over 18.73 acres with independent buildings for each department. College has sufficient numbers of Class rooms, Tutorial rooms, Seminar rooms, Conference hall and Laboratories.

The institute library has a collection of reference books supported by e-journals from IETE and digital study material. Book bank scheme for reserved category students is available in the library. The library is automated and SLIM++ software is used. E-resources are available and membership of DELNET obtained.

Departments have independent Computer labs with adequate computing facility. Institute also has a Central Computer Centre. Campus-wide Networking Wi-Fi and CCTV facility is available in the college. Many classrooms and laboratories are equipped with multimedia teaching aids. Although Laboratory equipment is as per the syllabus requirement, but equipment with latest technology is required for student projects and research activities.

The college has adequate facilities for sports (indoor and outdoor) and for cultural activities. College has two boys and two girls' hostels, Canteen, girls and boys Common rooms, Women's rest room, telephone & Internet, Power generator set. Apart from technical infrastructure, other physical facilities like ample parking space, green campus, adequate toilets, and security personals are also available. All these campus facilities are maintained through independent Maintenance Unit. The College administration provides adequate budget and finance for the continuous availability of physical facilities.



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

College has an active and vibrant student council and representation of students on academic and administrative bodies/committees is encouraged. Council helps the administration in prevention of ragging on the campus and smooth conduct of various student activities. There is a mechanism to identify and address student related issues and problems. Grievance Cell for students, Anti-ragging committee, Anti-ragging squad, and Women Grievance Cell are in place. Institute has a dedicated Training & Placement cell headed by the T&P officer..

The students are encouraged to take part in several events and activities, NSS, blood donation camps, etc. This helps society and imparts the spirit of social responsibility amongst the students. Fresher's day, annual cultural program "COLOUR" and Techfest are regularly organized by the students.

The college has a registered alumni association named as, Gandhi Gram Engineers Alumni Association (GGEA), which is functioning actively and contributing significantly to the development of the institution. Institute organizes alumni meet and their interaction throughout the year by inviting them in their respective departments to guide the current students.



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 college has a well defined vision and mission. Based on the vision, mission and goals of the Institute and inputs received from various stakeholders, the quality policy of the institution has been drafted. The college has a supportive management. The leadership of the institute believes in participative management and strives to bring in excellence by structured organizational system with the involvement of all the stakeholders.

Various statutory committees have been formed in order to inculcate transparency in the decision making process and effective governance. The committees are headed by senior faculty with active participation of committee members. The Management empowers the faculty members through education, training, and promoting research. The institution has welfare schemes for the teaching and non-teaching staff as per the state government rules and performance appraisal System for teaching and non-teaching staff exists. The functions of various bodies, service rules, and recruitment and promotion policies documented.

Administration takes care of the key attributes, i.e., Budgetary provision, Financial support, Infrastructure development, resource planning, manpower planning and development for smooth operation of the Institute. The quality improvement strategies are planned taking into consideration the feedback of relevant stakeholders and deployed properly. Internal and external audit is conducted regularly.

The institute has established IQAC in the year 2016. Some members of IQAC are chosen from the industry and academia from other institutions. This cell focuses on institutionalizing the quality assurance strategies and processes. The institution reviews its teaching learning processes, structures and methodologies of operations and learning outcomes periodically. Academic audit has been done by the college with internal experts. College should do the academic audit with external experts also.

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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"> <li>1. Safety and Security</li> <li>2. Counselling</li> <li>3. Common Room</li> </ol>
7.1.5 QIM	<p>Waste Management steps including:</p> <ul style="list-style-type: none"> <li>• Solid waste management</li> <li>• Liquid waste management</li> <li>• E-waste management</li> </ul>
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"> <li>• Students, staff using <ol style="list-style-type: none"> <li>a) Bicycles</li> <li>b) Public Transport</li> <li>c) Pedestrian friendly roads</li> </ol> </li> <li>• Plastic-free campus</li> <li>• Paperless office</li> <li>• Green landscaping with trees and plants</li> </ul>
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 faculty and students are sensitized for issues of Environment consciousness equity by way of organizing various activities and motivating the students to participate in these activities.

The institute has well developed green campus. e- Waste generated is properly collected and handed over to e-Waste handling registered agency. Climate change and environmental issues are also addressed. Tree plantation drive is carried out in nearby villages every year. Institute provides all the possible facilities for

Divyangans.

The college has established a lab known as “ For Inspiration and Research in Science and Technology (FIRST)” for inspiring and encouraging students to carry out innovative projects. The college has student association at departmental level, which organizes various academic and extracurricular activities. The college is not charging any fees for hostel accommodation from students of first year across all programs.

The institution focuses on overall personality of the students admitted from rural areas by organizing various activities for improvement of their aptitude and communication skills. Various projects are undertaken at the final year level to address the rural needs and problems. Entrepreneurship awareness programs are organized to address the issues like professional ethics and improvement in entrepreneurial competencies among students.

The institution organizes national festivals and birth/death anniversaries of the great personalities.

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

**Strength**

**Strengths**

1. One of the oldest self financing Engineering College with good brand name
2. Recognition of UGC under section 2 (f) and 12 (B)
3. Supportive management and good leadership
4. Well Experienced and qualified Staff
5. Green campus with adequate physical infrastructure

**Weaknesses**

1. Non-availability of highly equipped research laboratories
2. lack of linkages with leading institutions/ Research Centres
3. Less number of faculty with Ph. D qualification.
4. Limited opportunities for placements
5. Limited Research and consultancy activities

**Opportunities**

1. Scope for becoming an autonomous institution
2. Enhancement in entrepreneurship activities with the help of industries
3. Obtaining funds for research from government and non-governmental organizations
4. Availability of land for future expansion.
5. Developing collaborations with industries and institutions of national importance

**Challenges**

1. Enhancing communication skills of the students.
2. Campus placement of students
3. Obtaining industry sponsored research projects
4. Retention of qualified and competent faculty

5. Improving student admissions in UG and PG courses

#### **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)

- Institute must try to attract senior faculty with Ph D and also improve the cadre ratio.
- Students of each department should be motivate to start activities of Professional Bodies like IEEE, ASME, CSI, ACE etc.
- Institute should try for a greater number of industrial training for all years and look for Live industry-based projects.
- Institute should put efforts to attract more number of companies for campus placement of students
- Infrastructure facilities in all the department need to be further upgraded.
- More innovative experiments should be added over and above of university curricula.
- Research publications of the faculties should be improved.
- Faculty should be encouraged to do Ph. D so that number of Ph. D faculty increases.
- Management of the institute can look into the proposal for providing substantial Seed Money to start research and all the faculty members should be encouraged to have externally funded projects from organizations like DST, CSIR etc.
- Management must create some backup funds which can be utilized during financial crisis.

**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. ASOK DE	Chairperson	
2	DR. A M SHAH	Member Co-ordinator	
3	DR. VRINDA TOKEKAR	Member	
4	DR. K. RAMA	NAAC Co - ordinator	

Place

Date

NAAC