



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

Accreditation - (Cycle - 2)

PEER TEAM REPORT ON

**INSTITUTIONAL ACCREDITATION OF
DR. DAULATRAO AHER COLLEGE OF ENGINEERING, KARAD**

**Karad
Maharashtra
415124**

**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:	DR. DAULATRAO AHER COLLEGE OF ENGINEERIN,KARAD Karad Maharashtra 415124	
2.Year of Establishment	2008	
3.Current Academic Activities at the Institution(Numbers):		
Faculties/Schools:	1	
Departments/Centres:	4	
Programmes/Course offered:	4	
Permanent Faculty Members:	55	
Permanent Support Staff:	88	
Students:	983	
4.Three major features in the institutional Context (Asperceived by the Peer Team):	1. The institute is situated at taluka place and catering to rural students. 2. Clean and Green campus. 3. Proactive and supporting management.	
5.Dates of visit of the Peer Team (A detailed visit schedule may be included as Annexure):	From : 15-12-2022 To : 16-12-2022	
6.Composition of Peer Team which undertook the on site visit:		
	Name	Designation & Organisation Name
Chairperson	DR. RAJAT GUPTA	Director,National Institute Of Technology Mizoram
Member Co-ordinator:	DR. SURESH SINGH KUSHWAH	Professor,RAJIV GANDHI PRODYOGIKI VISHWAVIDHYALAYA
Member:	MR. BHUVAN PAREKH	FormerDean,THE MAHARAJA SAYAJIRAO UNIVERSITY OF BARODA
NAAC Co - ordinator:	Dr S Sreenivasa	

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
1.1.2 QIM	The institution adheres to the academic calendar including for the conduct of CIE
1.2	Academic Flexibility
1.3	Curriculum Enrichment
1.3.1 QIM	Institution integrates crosscutting issues relevant to Professional Ethics ,Gender, Human Values ,Environment and Sustainability into the Curriculum
1.4	Feedback System

Qualitative analysis of Criterion 1

G. K. Gujar Memorial Charitable Trust's Dr. Ashok Gujar Technical Institute's Dr. Daulatrao Aher College of Engineering, Karad affiliated with Shivaji University, Kolhapur, adapts to the syllabi under CBCS pattern offered by the university to the respective programmes. The Academic calendar, teaching plan and work plan are prepared by the college and implemented, as per the calendar prepared by the Shivaji University, Kolhapur. It facilitates an academic atmosphere instrumental to the smooth conduct of the programmes. The college conducts cocurricular and extra-curricular activities. The students are involved in creating awareness regarding social issues such as gender, environmental awareness and human rights through different activities. Students are also encouraged to undertake fieldwork and internships. IQAC undertakes curriculum feedback and analyses them and recommends measures for improvement.

All relevant factors related to human values & ethics, gender equality are imbibed. Institute has given equal opportunities to all genders in employment, sports activities, admission and development of their carrier. Institute has given extra care to enhance the soft skills of the students. They have helped faculty members to attend conferences, workshops, seminars etc. However, more initiatives are required to encourage all faculty members for quality publications. College environment for students is conducive to studies with well presence ecology. The college conducts parents-teachers meet, alumni meets once in a year.

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 and organises special Programmes 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
2.3.2 QIM	Teachers use ICT enabled tools for effective teaching-learning process.
2.4	Teacher Profile and Quality
2.5	Evaluation Process and Reforms
2.5.1 QIM	Mechanism of internal assessment is transparent and robust in terms of frequency and mode
2.5.2 QIM	Mechanism to deal with internal examination related grievances is transparent, time- bound and efficient
2.6	Student Performance and Learning Outcomes
2.6.1 QIM	Teachers and students are aware of the stated Programme and course outcomes of the Programmes offered by the institution.
2.6.2 QIM	Attainment of programme outcomes and course outcomes are evaluated by the institution.
2.7	Student Satisfaction Survey

Qualitative analysis of Criterion 2

Experiential and participative learning methods are practiced in classrooms along with specialized workshops and seminars for enhanced learning. Interactive learning is encouraged with teachers as the facilitator for proper attainment of the outcomes. The use of PowerPoint presentations, Google classroom, blogs and online videos are regular augmentations that enhance the teaching process. There is a mentoring system in place to guide the students to optimal achievements. The college has Continuous Internal Examination system in place. Two unit tests and one model examination in theory and practical are conducted in each semester. In general, the mechanism of internal assessment is transparent and robust in terms of frequency and variety. The college has an academic monitoring committee which monitors day to day activities. The attainment of learning outcomes is calculated using direct and indirect methods. In direct method, performance of student in internal examination and university examination is considered and in indirect method, student progression and placement data is taken into consideration.

Very few faculty members are involved in curriculum development in the university board of studies and many teachers are involved in evaluation process. All examination related grievance redressal mechanisms are online and directly addressed by the students to the university, which is supported by the faculty. Faculties are offering training and skill development programs for the students (e.g. expert lecture, Microsoft company offers training program, workshop, field visit etc.).

Criterion3 - Research, Innovations and Extension (Key Indicator and Qualitative Metrics(QIM) in Criterion3)	
3.1	Resource Mobilization for Research
3.2	Research Publications and Awards
3.3	Extension Activities
3.3.1 QIM	Extension activities are carried out in the neighborhood community, sensitizing students to social issues, for their holistic development, and impact thereof during the last five years.
3.4	Collaboration

Qualitative analysis of Criterion 3	
<p>The faculty members have very less research projects in the last five years. The college conducted workshops and industrial visits to create awareness of Entrepreneurship among students. Workshops on Intellectual Property Rights have been conducted. Considering the number of total teaching faculty, number of publication during last five years seems to be less. The faculty along with the students work in fulfilling the institution's social responsibility through different extension activities organised by departments or various cells and forums like NCC and NSS. Events like blood donation camp, tree plantation, etc. are organized by the college regularly. Good numbers of students are participating in the extension activities such as Swachh Bharat, Aids awareness, Gender issues etc. The college organized various different extension activities in last five years. The efforts of institute are appreciated and rewarded with some awards for its extension activities in the community. The institute need to apply for external funded research projects.</p> <p>Significant number of faculty are being supported and motivated for pursuing their Ph.D program (part time) at reputed institutes. Students industry oriented projects are indicative of enabling environment of creativity and innovations. Institute does not offer any Post Graduate course.</p>	

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 infrastructure and physical facilities for teaching- learning. viz., classrooms, laboratories, computing equipment etc.
4.1.2 QIM	The Institution has adequate facilities for cultural activities, sports, games (indoor, outdoor), gymnasium, yoga centre etc.
4.2	Library as a Learning Resource
4.2.1 QIM	Library is automated using Integrated Library Management System (ILMS)
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 institute has taken progressive steps to provide various infrastructure facilities like up to dated library, Reading rooms, Digitalized language lab, Boys & Girls common room, Gym, Yoga centre, Health care centre and Canteen. The institute has adequate space and facilities for sports, games, cultural activities which include a playground and a good open green campus for the cultural events. There is a playground in the campus which is used for outdoor games like Cricket, Football, Baseball and Basketball. The library is partially automated with e-Granthalaya version 3.0. The registered users can access e-journals, e-books and other electronic resources using N-LIST of INFLIBNET. Institutional resources like previous year question papers, newspaper clippings, e-books and dissertation thesis. Students are given an access to NDL (National Digital Library). The Online Public Access Catalogue (OPAC) facility is there. The Institute has a sufficient computer Laboratories and ICT equipments such as printers and scanners. ICT enable classrooms are sufficiently available to assist academic activities in the institute. The institute procured good number of LCD projectors for ICT enabled Classrooms, seminar halls and laboratories. The institute has internet with 1Gbps fiber optic backbone network with D-link manageable switches supplemented with Wi-Fi support given by few access points. Wi-Fi support for Library is not available. Power supply is ensured by Uninterrupted Power Supplies (UPS) Biometric attendance system is followed for staff members. The college has waste management system in place. As per policy the college has some inhouse staff and on call staff for the maintenance of infrastructure. The overall usage of library by teachers and students can be improved. The college should further improve systems and procedures for maintaining and utilizing physical, academic and support facilities.

The IT facilities in terms of hardware and software are adequate.

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	Institution facilitates students' representation and engagement in various administrative, co-curricular and extracurricular activities (student council/ students representation on various bodies as per established processes and norms)
5.4	Alumni Engagement
5.4.1 QIM	There is a registered Alumni Association that contributes significantly to the development of the institution through financial and/or other support services

Qualitative analysis of Criterion 5

The Institute provides platform for financial assistance in the form of various scholarships and freeships. Besides government scholarships, institute gives concession to needy students, provides facility to pay fee in instalments and assistance in the form of industry scholarship. The college has some beneficiary students by scholarships. The statutory bodies like Anti-ragging cell, ICC, Anti-sexual harassment cell, Grievance redressal cell also have the representation of students. The Institute has established Training and Placement Committee that helps students to enhance skills and place in prestigious organizations. Students progress to higher education through succeeding entrance examinations. The Institute provides adequate support to the students for active participation in various activities such as NSS, Annual Gathering, Teachers day, Republic day, Science day, Shivjayanti. The college has a registered Alumni Association which is active and helps college in various ways. However there is no financial support from the alumni, which needs immediate attention.

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 and in tune with the vision and mission of the institution
6.1.2 QIM	The effective leadership is visible in various institutional practices such as decentralization and participative management
6.2	Strategy Development and Deployment
6.2.1 QIM	The institutional Strategic / Perspective plan is effectively deployed
6.2.2 QIM	The functioning of the institutional bodies is effective and efficient as visible from policies, administrative setup, appointment, service rules and procedures, etc.
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	Institutions 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 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)

Qualitative analysis of Criterion 6

The G.K. Gujar Memorial Charitable Trust is registered in the year 1995, which played significant role in education of Karad in Maharashtra. They provide the technical education with a reasonable fees where many girl students have taken the admission. IQAC has been established in the institute but needs a lot for its strengthening. The institute has well defined procedure to review teaching learning process, structures and methodologies of operation and learning outcomes at periodic interval through IQAC.

The governing body collects the inputs of the Principal and IQAC while formulating the plan of action of the institution. The Principal, College Council, IQAC and faculty members along with other stakeholders collaborate effectively to fulfil the vision and mission of the institution. The college practices decentralised participatory governance. However there is no financial delegation to the Deans, HOD's etc. The departments prepare an action plan on the academic, curricular and cocurricular activities and the implementation and

planning of the action plan is monitored by the IQAC and college council. The faculty members are encouraged to participate in professional development programmes. The college organises some programmes for professional development and faculty development programmes regularly. There is also a Group Insurance scheme for faculty and staff. The Institution has a transparent and well-planned financial management system and there exists a mechanism of external and internal audit accounts separately. The college has been able to implement some of the recommendations made by the previous peer team. Feedback from all the stakeholders is taken which can be further improvement. The institute needs to encourage faculty for exposure to reputed institutes

Criterion7 - Institutional Values and Best Practices (Key Indicator and Qualitative Metrics(QIM) in Criterion7)	
7.1	Institutional Values and Social Responsibilities
7.1.1 QIM	Measures initiated by the Institution for the promotion of gender equity during the last five years.
7.1.3 QIM	Describe the facilities in the Institution for the management of the following types of degradable and non-degradable waste (within 500 words) <ul style="list-style-type: none"> • Solid waste management • Liquid waste management • Biomedical waste management • E-waste management • Waste recycling system • Hazardous chemicals and radioactive waste management
7.1.8 QIM	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).
7.1.9 QIM	Sensitization of students and employees of the Institution to the constitutional obligations: values, rights, duties and responsibilities of citizens (within 500 words).
7.1.11 QIM	Institution celebrates / organizes national and international commemorative days, events and festivals (within 500 words).
7.2	Best Practices
7.2.1 QIM	Describe two best practices successfully implemented by the Institution as per NAAC format provided in the Manual.
7.3	Institutional Distinctiveness
7.3.1 QIM	Portray the performance of the Institution in one area distinctive to its priority and thrust within 1000 words

Qualitative analysis of Criterion 7

The college conducts various programmes related to gender equity. The college organises various programmes intended to inculcate national values, fundamental duties etc. among the community of the college. Surveillance cameras have been placed across the college campus, including entrance and department corridors. The college has a mechanism for waste management. Rain water harvesting is in place. The college has a lush green campus. A green audit was conducted through an external agency and a green protocol was adopted. College regularly celebrates national festivals and observe days to commemorate national personalities. Republic day and Independence Day are celebrated every year. One of the best practices adopted by the institute is "Student Skill Development Cell" that undertakes various initiatives to enhance student employability. "Environmental Consciousness and Sustainability" is another best practice of the college to foster awareness about the sustainable environment conservation. Distinctive feature of the college is sports that the Institute boasts of being an excellent performance in this field.

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

Strength:

1. Very supportive and cooperative management.
2. Good infrastructure facilities.
3. Green energy practice is praiseworthy.
4. Conducive academic Environment.
5. Teachers are helpful to the students.
6. Good number of products in the product development centre for sale and internal use.
7. Two regular non teaching staff members of the institute have been given opportunity to pursue B.Tech program through Lateral entry.
8. Support for financial weaker students by the management.
9. Efforts for 360 degree development of the students through various clubs, centres, NCC, NSS etc are appreciable.
10. Management is proactive to develop the students, specially female, from the nearby rural places.
11. Industry sponsored Lab (Non-Renewable energy) for the demonstration purpose of students available.

Weaknesses:

1. Presently Less number of faculty with Ph.D.
2. R & D activities are limited.
3. Less Industrial exposure.
4. Less flexibility in modifying the curriculum as per industrial need being affiliated institute.
5. Placement in core sector needs improvement.
6. IQAC may be strengthened.
7. Quality publication may be strengthened.
8. Faculty cadre ratio may be improved.
9. Quality of professionalism and documentation need to be improved.
10. Testing and consultancy may be improved.

Opportunities:

1. Adopt need based pedagogical practices.
2. Strengthening of incubation facilities for tech-based start-ups.
3. Cohesive and fruitful industry institute interaction.

4. Strengthening of placement, specially in core sectors.

Challenges:

1. To handle adequately the Change in Industrial scenario.
2. The Intakes in some of the programs are declining.
3. Getting students qualified in GATE, GRE, and CAT etc.
4. More Ph.D. qualified faculty required.
5. Proper Cadre ratio to be maintain.
6. NBA accreditation for the program required.

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)

- IQAC may be strengthen.
- Publication may be strengthen.
- Quality of the professionalism and documentation need to be improved.
- Senior faculty may be recruited.
- PG course may be started.
- Smart classrooms need to be developed.
- Modernisation & upgradation state of the art equipment's in some labs required.
- Institute authority may start transportation facility for the staff and students on its own.
- Dining facility in hostel needs to be started.
- Faculty exposure to reputed institution may be promoted.
- Guidance facility for GATE, CAT, GRE and other competitive exam needs to be started.

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. RAJAT GUPTA	Chairperson	
2	DR. SURESH SINGH KUSHWAH	Member Co-ordinator	
3	MR. BHUVAN PAREKH	Member	
4	Dr S Sreenivasa	NAAC Co - ordinator	

Place

Date