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INSTITUTIONAL ASSESSMENT AND ACCREDITATION (Effective from July 2017)

Accreditation - (Cycle -1)

PEER TEAM REPORT ON
INSTITUTIONAL ACCREDITATION OF
ANURAG ENGINEERING COLLEGE
C-19538
Telangana
ANANTHAGIRI
508206

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:	ANURAG ENGINEERING COLLEGE ANANTHAGIRI Telangana 508206
2.Year of Establishment	2001
3.Current Academic Activities at the Institution(Numbers):	
• Faculties/Schools:	1
• Departments/Centres:	6
• Programmes/Course offered:	8
• Permanent Faculty Members:	126
• Permanent Support Staff:	101
• Students:	1792
4.Three major features in the institutional Context (As perceived by the Peer Team):	<ol style="list-style-type: none"> 1. Institute is promoting higher education in rural and remote area. 2. Institute posses an adequate and modern infrastructural facility 3. Institute has harmonious ambiance of stake holders including students, faculties, parents and alumina.
5.Dates of visit of the Peer Team (A detailed visit schedule may be included as Annexure):	Visit Date From : 23-06-2022 Visit Date To : 24-06-2022
6.Composition of Peer Team which undertook the on site visit:	

Chairman:	Ashok Aima
Member Co - ordinator:	Sudhanshu Sekhar Das
Member:	Ashesh Tiwari
NAAC Co - ordinator:	Dr. A.v. Prasad

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)

<i>Criterion1 - Curricular Aspects (Key Indicator and Qualitative Metrics(QIM) in Criterion1)</i>	
<i>1.1</i>	<i>Curriculum Design and Development</i>
1.1.1 QIM	Curricula developed and implemented have relevance to the local, national, regional and global developmental needs which is reflected in Programme outcomes (POs), Programme Specific Outcomes(PSOs) and Course Outcomes(COs) of the Programmes offered by the Institution.
<i>1.2</i>	<i>Academic Flexibility</i>
<i>1.3</i>	<i>Curriculum Enrichment</i>

1.3.1 QIM	Institution integrates crosscutting issues relevant to Professional Ethics ,Gender, Human Values ,Environment and Sustainability into the Curriculum
1.4	<i>Feedback System</i>

Qualitative analysis of Criterion 1

"ANURAG ENGINEERING COLLEGE" (AEC) was started in the year 2001 in rural area of Ananthagiri village near Kodad town of Telangana. As it is an affiliated college to JNTUH, Hyderabad. The college attained Autonomy status from UGC and JNTUH, Hyderabad from the year 2014. The college systematically develops various action plans for better implementation of the curriculum framed based on the guidelines of AICTE, Affiliating University and implemented the Choice Based Credit System (CBCS) from year 2015-16. The academic calendar is prepared at college level keeping in mind to balance between academic and non-academic activities. Based on academic calendar faculty prepares lecture plan. Contents of the plan includes, Course prerequisites, Learning resources, Detailed unit wise lecture plan, Assignment and tutorial questions, Model question paper and Link to the video lectures. The curriculum primarily includes theory with modest practical, technical orientation, and project work. The curriculum is equally augmented with Gender Sensitization, Human Values and Professional Ethics, Skills Development courses such as Soft skills, Communication skills and Technical skills. The Institution adopted student centric learning methods like participative learning, experimental learning, problem solving methods, collaborative, projects and case studies. Curricula includes the topics such as environmental studies, Safety, security, ethics, social awareness, humanity and social science, professional Code of Conduct and similar subjects. Faculty uses ICT facilities which includes like LCD, PPT, Videos etc. The institute needs to upskill industry collaborations and hands on experience to the students. Academic flexibility is available thorough CBCS. Employability skill development oriented activities can be improved.

The Institute is promoting higher education among girls and boys in a remote rural area playing an important role in bringing social and developmental changes in the local regional community. Feedback on the curriculum is obtained from students and analysed with limited fall of actions.

To supplement the cross cutting issues such as Gender, Climate Change, Environmental and sustainability, Human Rights, ICT, Human values, are duly covered besides having a N.S.S. unit with this activities focusing on the catchment area of adopted villages.

Criterion2 - Teaching-learning and Evaluation (Key Indicator and Qualitative Metrics(QIM) in Criterion2)	
2.1	<i>Student Enrollment and Profile</i>
2.2	<i>Catering to Student Diversity</i>
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	<i>Teaching- Learning Process</i>
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 including online resources for effective teaching and learning process.
2.3.4 QIM	Preparation and adherence of Academic Calendar and Teaching plans by the institution
2.4	<i>Teacher Profile and Quality</i>
2.5	<i>Evaluation Process and Reforms</i>
2.5.3 QIM	IT integration and reforms in the examination procedures and processes including Continuous Internal Assessment (CIA) have brought in considerable improvement in Examination Management System (EMS) of the Institution
2.6	<i>Student Performance and Learning Outcomes</i>
2.6.1 QIM	Programme and course outcomes for all Programmes offered by the institution are stated and displayed on website and communicated to teachers and students.
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***

College admits the students as per sectioned seats on the basis of govt and university's rules and regulations. About sixty percentage of sanctioned seats are filled up showing low enrolment and demand ratio. Most of the students of AEC are from home state, with limited diversity. The students are classified as Slow/Advanced Learners based on different entrance examination rank, Intermediate marks and Mid examination marks.

Advanced learners are encouraged to participate in seminars and workshops, to take up internship at esteemed institutions. To uplift the morale of the slow learners encouragement and the counselling/mentoring carried out in the

institute. Additional sessions are arranged for the slow learners to increase the level of learner and help them to understand course contents.

The institute encourages and practices experiential learning, participative learning and problem solving methodologies by implementing various student centric processes in a limited way. Industry visits are organized to expose the students to understand the industrial working, use of technologies. Many Final year students and few pre-final year students undergo industry internships during summer and winter vacations. Final year projects, mini projects and Problem Solving Based Learning are important components in the curriculum. In Problem Solving Based Learning students solve problems, get hands-on experience of using real world problems, tools and equipment available in the institute as per curriculum, instruments and machineries. Institute promote the students for participation in various events, competitions and hands on workshops and trainings. Individuals and teams from institute participate in various events at inter-institute level and few have secured prizes and awards. Participation in such competitions proves their skills for participative and experiential learning. Institute has collaborated and signed MoUs with few industries and set up few labs to enrichment of faculty and students.

All faculty members are post graduates and institute need to recruit Ph.D. candidates. Research and publications need substantial improvements. Innovation and start-up culture has to be inculcated in the students and

faculty members.

The Institute has Examination Branch that takes care of smooth conduction of various internal and external examinations. The Examination Branch is responsible for addressing and resolving the grievances related to internal and external examinations. The Branch observes transparency in dealing with the grievances and most of the grievances are addressed in due course of time. Academic calendar in place. Slots related to co-curricular are provided in the calendar. Continuous internal Evaluation is in place and followed as per the calendar. The system appears to be transparent.

Few departments are NBA accredited. The Institute has a well-defined process of evaluating attainment of programme outcomes and course outcomes. The evaluation parameters are defined by the institution as per NAAC SSR Guidelines.

The efforts are to be made to create awareness among student for more participation in the student satisfaction survey and feedback system. Students and parents expressed satisfaction over the mechanism of grievance redressal.

***Criterion3 - Research, Innovations and Extension
(Key Indicator and Qualitative Metrics(QIM) in Criterion3)***

3.1	<i>Promotion of Research and Facilities</i>
3.1.1 QIM	The institution's Research facilities are frequently updated and there is a well defined policy for promotion of research which is uploaded on the institutional website and implemented
3.2	<i>Resource Mobilization for Research</i>
3.3	<i>Innovation Ecosystem</i>
3.3.1 QIM	Institution has created an eco system for innovations, creation and transfer of knowledge supported by dedicated centers for research, entrepreneurship, community orientation, Incubation etc.

3.4	<i>Research Publications and Awards</i>
3.5	<i>Consultancy</i>
3.6	<i>Extension Activities</i>
3.6.1 QIM	Extension activities are carried out in the neighbourhood community, sensitising students to social issues, for their holistic development, and impact thereof during the last five years
3.7	<i>Collaboration</i>

Qualitative analysis of Criterion 3

AEC shows interest in promoting Research, Innovation & Extension activities with modest grant. However, in mobilizing grants for research projects the institution has to go a long way. The college teachers do not have any research project as on date. Institute has to develop robust research culture and have to expedite the process by encouraging faculty. The institute encourages the faculty by providing incentives for peer reviewed publications, writing books and filing patents. The institute takes care of patent filing process, which is governed by Research policy of the institute. There is policy to support registration and logistics to present paper and participate in conferences in country and in the international level.

Innovation in teaching, learning and Research is limited and needs to be strengthened. Incubation centre and other initiatives to create and knowledge needs to be established. Few teachers have contributed in chapters in edited volumes of books & conference proceedings and very few UGC approved Journals. Institute has applied for thirteen patents. Large chunk of teachers have to still contribute in this process. Teachers should be encouraged to published paper in Indexed Journals by incentivising schemes.

Institute and NSS unit regularly conduct various events like Blood Donation, Sadbhavana Day, Swachhata Pakhwada, Celebration of National and Religious festivals, Cleanliness drives, Swatchh Bharath Abhiyan, Youth Parliament Program, Water Resource and Conservation, Cashless transaction, Awareness programs on Aids, Fire Safety, Kill Cancer, Road Safety, and COVID 19 Pandemic, Yoga Day, Engineers Day, etc. The institute has initiated effort to adopt five villages located in its surrounding and sensitize on several social issues by organizing Road safety awareness programs, Cleanliness awareness program, Gender sensitization drives/ rainwater harvesting/ blood donation camps etc. Cleanliness awareness programs / Swatch Bharat programs and awareness programs on open defecation have been organized in association and collaboration with local bodies and NGOs. Collaboration with industry and institute of national eminence need to be upgraded.

Criterion4 - Infrastructure and Learning Resources (Key Indicator and Qualitative Metrics(QIM) in Criterion4)	
4.1	<i>Physical Facilities</i>
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, yoga, games and sports (indoor & outdoor); (gymnasium, yoga centre, auditorium, etc.,)
4.2	<i>Library as a Learning Resource</i>
4.2.1 QIM	Library is automated using Integrated Library Management System (ILMS)
4.3	<i>IT Infrastructure</i>
4.3.1 QIM	<i>Institution has an IT policy covering wi-fi, cyber security, etc., and allocated budget for updating its IT facilities</i>
4.4	<i>Maintenance of Campus Infrastructure</i>
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

AEC has adequate number of classrooms, Administrative area, Amenity area, Laboratories & Circulation area. Most of the classrooms and laboratories are enabled with ICT facilities. The premises are maintained neat and clean. The campus has space for outdoor games & sports activities including athletic track, Badminton, Cricket, Kho-kho, Kabaddi, Volleyball, Basketball, Tennikoit, Throwball and Hand ball and indoor facilities for chess, caroms, table tennis, and badminton. Institute has separate gymnasium .

Institute has a central Library with 40036 volumes and 5646 title books backed by departmental libraries with qualified staff. The college library has instituted various learning platforms which includes DELNET, & J-Gate. The central library is automated with adequate number volumes and books is available for students. Library has got e-facilities for students and teachers and works from 9 am to 6 pm needs to increase the library timing. Library committee is in place to over see the function of library. Library needs to preserve literature, rare books and manuscripts pertaining cultural and civilization of the country.

860 computing nodes are connected to the 100 Mbps of Internet band width facilities.

The institution has the structured system for maintaining and utilizing the facilities available. The Facility management team maintains the physical and academic support facilities through different teams for housekeeping activities, maintenance of Garden, entire campus work etc. The college provides transportation facilities for its faculties and students. A transport committee is constituted to address and rectify any transport related issues.

***Criterion5 - Student Support and Progression
(Key Indicator and Qualitative Metrics(QIM) in Criterion5)***

<i>5.1</i>	<i>Student Support</i>
<i>5.2</i>	<i>Student Progression</i>
<i>5.3</i>	<i>Student Participation and Activities</i>

5.3.2 QIM	Presence of an active Student Council & representation of students on academic & administrative bodies/committees of the institution
5.4	<i>Alumni Engagement</i>
5.4.1 QIM	The Alumni Association / Chapters (registered and functional) contributes significantly to the development of the institution through financial and other support services.

Qualitative analysis of Criterion 5

AEC, is distributing Government Scholarships and the Free-ships to the reserved category students as per the policy of state. Supporting students from the funds of the institution is limited and need to be addressed. In order to support students development activities like coaching for competitive examinations, Career Counselling, Remedial Coaching Classes are conducted. During interactions, some stakeholders suggested that more regressive training should be given for competitive examination preparation, soft skill development and employability skill oriented activities.

The institute has established a platform for the participation of the students in various Committees which includes Canteen Committee, Hostel Committee, Training & Placement Committee etc. Committees in collaboration with the students organizes various activities related to academics, co-curricular and extra-curricular activities. Students also participate different sports and cultural events/competition in different state and national level completion.

Registered Alumni association is in place since 2008 and involve in formal and casual manner with the institute. Members meet for an annual get-together every year and interact with faculty and students. However, alumni need to be active in the institute in multifaceted parameters which includes lectures, internship, placement and creating a corpus. However, alumni need to act as mentors to facilitate the student progression in their persuit for higher education and carrier opportunities.

Criterion6 - Governance, Leadership and Management (Key Indicator and Qualitative Metrics(QIM) in Criterion6)	
6.1	<i>Institutional Vision and Leadership</i>
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 effective leadership is reflected in various institutional practices such as decentralization and participative management.
6.2	<i>Strategy Development and Deployment</i>
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	<i>Faculty Empowerment Strategies</i>
6.3.1 QIM	The institution has effective welfare measures for teaching and non-teaching staff and avenues for career development/ progression
6.4	<i>Financial Management and Resource Mobilization</i>
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	<i>Internal Quality Assurance System</i>

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

Qualitative analysis of Criterion 6

The institutional vision and mission of the institute are quite well-defined which are reflected and in tune with it's governance. However perspective/strategic plans have been clearly formulated and it's deployment lacks effectiveness and result-orientation. The management of AEC is committed for its integrity, institutional vision and social responsibility. The leadership of Governing Council (GC) with staff council and the IQAC members are involved in the process of fulfilling the Vision and Mission of the institution and on the whole it is an established institution and is functioning well.

The head of the institution is actively pursuing to achieve to reach the vision and mission of the institution. The departmental heads are associated with decision making processes linked to academic and non-academic activities. The responsibilities and the time to time instructions

are communicated through regular department meetings and staff meetings. The Institute follows a perspective plan for its development. The perspective plan is developed by the Principal under the guidance of the Governing Council, in discussion with the HoDs of the various departments.

Special Committees have been constituted for the identified domains of functionalities. The college promotes participative management and encourages the staff and students for active involvement in administrative bodies like Anti-ragging Committee, Disciplinary committee, Grievance and Redressal cell, Women empowerment Cell, NSS Committee, Canteen committee, Transport committee, OBC cell, SC/ST committee. However, it is suggested to conduct meetings and document the same at periodical intervals. Action taken documents needs to be improved.

The Strategic Plan and deployable documents are to be more rigorous and periodic updation to be done by institute in alignment with vision and mission.

Service rules for staff are in place and followed as per the management directive. The recruitment policies are as per the norms of the management. Performance appraisal system for Teaching and Non-Teaching staff is carried out. The performance of every employee is assessed after completion of each academic year based on specific parameters including teaching learning and outreach and research. The appraisal deficiencies are communicated to the respective teacher. It is suggested to develop support system to overcome deficiencies.

Institution follows annual budgeting system. Mainly funds come from student fees. Other than internal audit, qualified auditors, audits the financial performance of the institution in regular interval.

IQAC cell is functioning institute since 2018 and yet to get structured in an institution mechanism where it can fulfil its mandate to over see the progression of the college. IQAC members conduct meetings in periodically to ensure implementation of academic activities as well as faculty performance. The IQAC supports to involve various departments of the institution, and inspects the departments as a calendar task in every semester. It also assists in connecting the academic reviews activities. The academic plan is prepared well before the commencement of class work

for the subjects. Every teacher maintains the attendance register, the syllabus copy and lesson plan of his/her respective subjects. Most of the topics are covered through ICT. The improvement in the quality of internal and end semester examination. Question Papers are prepared as per the Blooms taxonomy.

They are practising electives and Choice Based Credit System courses to complement curriculum. The CBCS provides choice for students to select from the prescribed courses consisting of Humanities and Social Sciences, Basic Sciences, Engineering Sciences, Professional Core, Professional Electives, Open Electives and Enhanced Employability Courses.

***Criterion7 - Institutional Values and Best Practices
(Key Indicator and Qualitative Metrics(QIM) in Criterion7)***

7.1	<i>Institutional Values and Social Responsibilities</i>
7.1.1 QIM	Measures initiated by the Institution for the promotion of gender equity during the last five years.
7.1.3 QIM	<p>Describe the facilities in the Institution for the management of the following types of degradable and non-degradable waste (within 500 words)</p> <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	<i>Best Practices</i>
7.2.1 QIM	Describe two best practices successfully implemented by the Institution as per NAAC format provided in the Manual.
7.3	<i>Institutional Distinctiveness</i>
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 institution has adequate number of lady faculty and staff member exhibiting gender equity. Installation of CCTV and its monitoring provide safe and secured atmosphere for all stakeholders, particularly women. The mentor and mentee system in place, and counsel the students regularly. Common room for both girls and boys are present in the institution. Health centre with a qualified doctor and a nurse is available in the campus to provide medical care to the students.

Institution has arrangements for disposal/recycling of solid waste management, liquid waste management to meet its objective of Sustainable Development. Arrangement is documented for disposal e-waste. The campus has made certain arrangement to utilize alternate energy sources like solar energy system. Rainwater harvesting is carried out. Majority of the building of AEC has provision for rainwater harvesting. The management has taken steps for green practices like pedestrian friendly roads, plastic free campus and green landscaping with trees and plants. The institution has facilities for physically challenged students and staff. There are activities for community development and upliftment of socially disadvantaged. Students are actively involved in social responsibilities through NSS. NSS organize many cultural events to address prevailing social issues, where students, staff, alumni participate with patriotic favour. NSS also organize mass pledge on Swatch Bharat Abhiyan and national youth day is celebrated on 12th JANUARY in honour of Swami Vivekananda who motivates youth to generate a positive attitude and provides knowledge about the right behaviour in society. AEC celebrate national festivals Republic day and Independence Day very enthusiastically. Institution is transparent in CIE however, it has to be strengthened by transparency and empowerment through decentralisation.

Best practices include:

Organizing Training for Students' placement

Outcome Based Education

Distinctiveness of the Institute as seen by peer Team for the institution would be

Providing higher education in a rural and remote area

Provides programs to enhance employment skills and professional skills

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

Overall Analysis

Large campus with adequate infrastructure and physical facilities

Well-defined Institutional vision and mission.

Promoting higher education in rural and backward area.

Balanced gender representation in all sphere of activities,

Campus harmony and ambiance among all stake holders

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)

- Measures for making consultancy cell active
- Quality of Teaching and Learning need to be more enhanced
- IQAC has to be proactive
- Enhancing soft skills of the students coming from rural background to make them industry ready
- Enhance Weightage for Research through capacity identification and building
- Establishment of Incubation centre
- Integration of ERP system should be hastened
- Update IT facility and participating in online courses
- Live MOU's with Premiere Institutions and Professionals
- Post Graduate course need to be more intensive

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

Signature of the Peer Team Members:

Sl.No	Name		Signature with date
1	Ashok Aima	Chairperson	
2	Sudhanshu Sekhar Das	Member Co-ordinator	
3	Ashesh Tiwari	Member	
4	Dr. A.v. Prasad	NAAC Co-ordinator	

Place: Date