INSTITUTIONAL ASSESSMENT AND ACCREDITATION
(Effective from July 2017)

Accreditation - (Cycle - 1)

PEER TEAM REPORT ON

INSTITUTIONAL ACCREDITATION OF
ALVA'S INSTITUTE OF ENGINEERING AND TECHNOLOGY
C-1284

Moodbidri
Karnataka
574225

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:	ALVA'S INSTITUTE OF ENGINEERING AND TECHNOLOGY Moodbidri Karnataka 574225
2. Year of Establishment	2008
3. Current Academic Activities at the Institution(Numbers):	
Faculties/Schools:	2
Departments/Centres:	11
Programmes/Course offered:	11
Permanent Faculty Members:	135
Permanent Support Staff:	97
Students:	2109
4. Three major features in the institutional Context (Asperceived by the Peer Team):	1. well established and committed management. 2. Good Ecosystem and eco-friendly campus 3. Good Infrastructure
5. Dates of visit of the Peer Team (A detailed visit schedule may be included as Annexure):	From : 13-01-2023 To : 14-01-2023
6. Composition of Peer Team which undertook the on site visit:	

	Name	Designation & Organisation Name
Chairperson	DR. SURESH VARMA PENUMATHSA	Vice Chancellor,Adikavi Nannaya University
Member Co-ordinator:	DR. MALABIKA DEO	Professor,PONDICHERRT UNIVERSITY
Member:	DR. VIJAY THAKARE	FormerPrincipal,Shri Shivaji Science College Amravati
NAAC Co - ordinator:	Dr. Neelesh Pandey	

Section II:CRITERION WISE ANALYSIS
Observations (Strengths and/or Weaknesses) on each qualitative metrices 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 Metrices(QlM) in Criterion1)	
1.1	Curricular Planning and Implementation
1.1.1 QlM	**The Institution ensures effective curriculum delivery through a well planned and documented process**
1.1.2 QlM	**The institution adheres to the academic calendar including for the conduct of CIE**
1.2	Academic Flexibility
1.3	Curriculum Enrichment
1.3.1 QlM	**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
Alva's Institute of Engineering and Technology, Moodbidri is affiliated to Visvesvaraya Technology University (VTU) Belagavi, Karnataka. The institute was established in 2008 under Alva Education Foundation to provide affordable and quality education to the youths of different socio-economic backgrounds in line with vision and mission of the trust. There are 10 U.G programs in engineering and One PG program in business administration. Out of which 6 Departments are recognized as research Centre by VTU and research scholars are allotted for this department under guidance 19 recognized supervisors. The UG and PG programs follow the curriculum designed by VTU. In line with the affiliating university, the Alvas IET implementing choice based credit system in U.G. and P.G. programs which provides flexibility to student. The institute designs its own academic calendar in accordance with the calendar of university for effective implementation of curriculum and continuous internal assessment. Head of the department monitors the continuous internal evaluation process. Courses like Constitution of India, Professional Ethics, Human Values and Environmental Studies are introduced at different levels, to address the cross cutting issues related to gender, environment, human values and professional ethics. For the overall development of students, human values, personal holistic competence foundation courses are conducted by the Institute. To inculcate social awareness among the student and society in general women empowerment cell, SRISHTI-nature club, ROSTRUM-speakers club plays important role. Shobhawana-herbal garden and birds-park in the premises maintained by institute adds to green ecosystem. The college has adopted a structured mechanism for receiving feedback related to curriculum from students, alumni, teachers and employer. It is discussed in the general body meeting of the trust and the suggestions are communicated to the University for Appropriate Action.

Criterion2 - Teaching-learning and Evaluation (Key Indicator and Qualitative Metrices(QlM) in Criterion2)	
2.1	Student Enrollment and Profile
2.2	Catering to Student Diversity
2.2.1 QlM	**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 QlM	**Student centric methods, such as experiential learning, participative learning and problem solving methodologies are used for enhancing learning experiences**
2.3.2 QlM	**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 QlM	**Mechanism of internal assessment is transparent and robust in terms of frequency and mode**
2.5.2 QlM	**Mechanism to deal with internal/external examination related grievances is transparent, time- bound and efficient**
2.6	Student Performance and Learning Outcomes
2.6.1 QlM	**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 QlM	**Attainment of programme outcomes and course outcomes are evaluated by the institution.**
2.7	Student Satisfaction Survey

Qualitative analysis of Criterion 2

The college is located in rural area and students of different socio-economic background from nearby area are enrolled in various programs along with few students from other states. The college adheres to reservation policy of the Government during admission process and adopts all possible measures to ensure transparency. The learning ability of students is measured before the commencement of course to frame teaching learning strategies as per the needs. Slow and advance learners are identified on the basis of marks obtained in the qualifying examination for first year students. For the students from Semester III to Semester VIII performance of semester end examination and performance of earlier internal assessment, becomes benchmark to identify slow and advance learners. College takes measures such as crash course for required subjects, meeting with parents and respective faculty for slow learners. Advance leaners are made as class representative, coordinators of student's forums and encouraged for participation in national and international conferences. Advance learners are also encouraged to appear for qualifying examinations for higher studies and competitive examinations. Bridge course is conducted for first year students to refresh fundamentals. The college has adopted mentor-mentee scheme for student's academic, personal and stress related issues. ICT equipments like laptop, computers, LCD Projectors are provided by the college in class rooms, seminar halls and laboratories to make teaching-learning more effective. Students are encourage to participate in NPTEL certification courses as well as to use digital library, e-journals on Knimbus (VTU consortium). Teaching learning and evaluation processes are planned and executed in accordance with the academic calendar. The College examination committee monitors and conducts systematically the continuous internal evaluation examination. Teachers have a freedom to conduct the assignment of students by descriptive method, numerical, group discussion, seminars or MCQs. IQAC has developed a transparent and efficient mechanism to deal with internal assessment examination related grievances. Assessment of final year projects is done at various steps such as synopsis, design and implementation and deployment of project. Grievances related to external examination are resolved as per the guidelines of VTU. The parent University decides the POs,

PSOs, and COs are published on institution website. The institute has adopted outcome based education system as recommended by NBA to calculate the attainment of POs., PSOs, and COs. Action points for continuous improvement based on current attainment are communicated to faculty members for implementation in next academic session.

Criterion3 - Research, Innovations and Extension (Key Indicator and Qualitative Metrices(QlM) in Criterion3)		
3.1	Resource Mobilization for Research	
3.2	Innovation Ecosystem	
3.2.1 QlM	**Institution has created an ecosystem for innovations and has initiatives for creation and transfer of knowledge**	
3.3	Research Publications and Awards	
3.4	Extension Activities	
3.4.1 QlM	**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.**	
3.5	Collaboration	

Qualitative analysis of Criterion 3

The institute has created an ecosystem for innovation.

VTU has recognized 6 departments as research centers and 19 faculty recognized as supervisors and 37 students are enrolled for doctoral degree. The value added laboratories are available for all students of institute for experimental and participative learning pertaining to content beyond syllabus. Entrepreneurship development cell is established for the overall development of students in entrepreneurial skills. Active MOUs with EDII Ahmadabad has extended knowledge support, financial grant for conducting entrepreneur awareness camp. Institute sponsors faculty members for Ph.D. and Postdoc. Institute has a policy to provide 10% as research initiative grant to faculty members.

The faculty has published 264 research papers in UGC care listed journals and published many articles in national/international conference proceedings. Karnataka State Council for Science and Technology as well as Karnataka Science and Technology Promotion Society has funded number of students and teachers projects. During last 5 years the institute has conducted 100 workshops on research methodology, intellectual property rights (IPR) and entrepreneur awareness.

The College has successfully carried out extension activities through youth red cross (YRS) and departmental forums in addition to NSS and NCC units. The activities organized by these units have developed a sense of social and civic responsibility among students to tackle emergency situation, natural disasters and made them self-reliant. These activities also helpe in increasing the scientific awareness of wildlife, pollution control, cleanliness and swachh Mijar.The activities namely blood donation camp, tree plantation, residential camps, health and hygiene awareness, environment conservation were received. The institution has adopted good practice by constructing public toilets for nearby villages, pipe compost, rural computer literacy campaign, donation through charity and many others social responsible activities in and around campus.

Alva Education Foundation has a regular practice of organizing National Cultural fest (Alva-Virasat) and Job fair (Alva-Pragati) which provide platform for the students to express themselves. The students have excelled in cultural activities at university level. The college has conducted various collaborative activities for research, faculty and students exchange and internship.The college has signed 21 MOUs with various academic and

research organizations and reputed organizations which includes one active international MoU with Kumamoto University, Japan.

Criterion4 - Infrastructure and Learning Resources (Key Indicator and Qualitative Metrices(QlM) in Criterion4)	
4.1	Physical Facilities
4.1.1 QlM	**The Institution has adequate infrastructure and physical facilities for teaching- learning. viz., classrooms, laboratories, computing equipment etc.**
4.1.2 QlM	**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 QlM	**Library is automated using Integrated Library Management System (ILMS)**
4.3	IT Infrastructure
4.3.1 QlM	**Institution frequently updates its IT facilities including Wi-Fi**
4.4	Maintenance of Campus Infrastructure
4.4.2 QlM	**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 college campus is spread over 16.90 acre of land having all the required facilities as per the norms of AICTE and VTU. All the classrooms are equipped with ITC facilities like LCD project, laptop. In addition to classrooms 7-seminars halls and one auditorium are available for the academic and extracurricular and co-curricular activities of students. Apart from curricular laboratories, 11-value added research laboratories are also established to create research culture on the campus. Separate space is allotted for training and placement cell as well as entrepreneur development cell. The IT facilities of the college are updated with adding number of computers and updating then periodically to meet the requirement. The institution effectively integrates ICT tools for its academic and administrative purposes. The college has well defined policies, system and procedures for maintenance of IT facilities. The Computer facility and computer labs are well equipped with required configuration. The library is fully automated with easylib software along with RFID. Library is having more than 24,000 books, sufficient number of journals and resources like e-book, journals and e-database along with collection of reference books. 42,000 e-resources from VTU consortium are also available for the students. Institute has a subscription of e-shodhsindhu, shodhganga, database, remote accessto e-resources. The sport facilities like running track, grounds for various out door games gymnasium and yoga hall are available in the premises. The college provides modern infrastructure facilities like the media center and studio for culture activities. The institute has well maintained hostel facilities for boys and girls in the campus. College is honored with 'Best Green Campus' award by pollution control board, Government of Karnataka. The computer facilities in the campus are utilized for conducting different examinations conducted by NTA. Further it also extends its facilities for examination center for entrance and recruitment examination like UGC-NET, JEE, NEET, KVPY etc. The entire campus is under the surveillance of CCTV to maintain the safety and security of students. Transport facility for students and staff is available

Criterion5 - Student Support and Progression (Key Indicator and Qualitative Metrices(QlM) in Criterion5)	
5.1	Student Support
5.2	Student Progression
5.3	Student Participation and Activities
5.3.2 QlM	**Institution facilitates students' representation and engagement in various administrative, co-curricular and extracurricular activities following duly established processes and norms (student council, students representation on various bodies)**
5.4	Alumni Engagement
5.4.1 QlM	**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 college takes initiative to maintain students support system by making efforts with scholarship assistance. In every academic session college constitutes students' council. The member of student council actively participate in various curricular and co- curricular activities in the college under the guidance of professor in charge. The students representative/member are included in various administrative, co-curricular and extra-curricular committees in IQAC, career counseling, entrepreneurship development cell, placement and training cell, anti-ragging committee, grievance redressal committee, prevention of sexual harassment committee as per the regulation. The college supports the student for applying scholarship provided by the government as well as institution. A career council cell supports the students for higher studies by guiding them regarding different qualifying examination. Training and placement cell takes care of the students with respect to capacity building and skill enhancement initiative so as to increase the employability. The students participated in sports and cultural competitions and they received many awards and prizes during last five years. The cultural team of the institute has won university championship at VTU level cultural competition for four years. The institute has an efficient and transparent Mechanism to deal with grievance of students. Mechanism for the online/offline submission of student grievance is developed.

 The college has a registered young alumni association and annual alumni meet is organized. The members of the alumni association have taken active step in shaping the policies of the institutions. The guest lectures of successful alumni are organized to share their success stories and help the students for placement through references. College accumulated 5 lakh rupees from alumni. Anti sexual harassment cell and anti ragging committee of the college are alive and the campus is monitored through CCTV surveillance |

Criterion6 - Governance, Leadership and Management (Key Indicator and Qualitative Metrices(QlM) in Criterion6)	
6.1	Institutional Vision and Leadership
6.1.1 QlM	**The governance of the institution is reflective of and in tune with the vision and mission of the institution**
6.1.2 QlM	**The effective leadership is visible in various institutional practices such as decentralization and participative management**
6.2	Strategy Development and Deployment
6.2.1 QlM	**The institutional Strategic / Perspective plan is effectively deployed**
6.2.2 QlM	**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 QlM	**The institution has effective welfare measures for teaching and non-teaching staff**
6.3.5 QlM	**Institutions Performance Appraisal System for teaching and non-teaching staff**
6.4	Financial Management and Resource Mobilization
6.4.1 QlM	**Institution conducts internal and external financial audits regularly**
6.4.3 QlM	**Institutional strategies for mobilisation of funds and the optimal utilisation of resources**
6.5	Internal Quality Assurance System
6.5.1 QlM	**Internal Quality Assurance Cell (IQAC) has contributed significantly for institutionalizing the quality assurance strategies and processes**
6.5.2 QlM	**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
Alva Institute of Engineering and Technology is governed as per the vision and mission of the college. It is governed with an appropriate hierarchical structure of governance. The management constitute strategic planning adversory committee to formulate the strategic perspective plan of the institute on the basis of inputs received from the various stakeholders through their feedback. Long term and short term goals are defined in the strategic perspective plan. The administrative members monitor the mechanism regarding administration and academic process and also ensure proper functioning of the policies, rules and action plan of the college. Transparent governance makes all the institutional activities live and vibrant. Dynamic leadership of the institution makes required changes in the system and functioning from time to time. The institute has decentralized management through the various committees appointed for the academic co-curricular activities to be conducted in the course of the academic year. In-house ERP solution is adopted for student support system. The administrative setup is automated with software. The college is self- financed, hence major part of

the funding is generated from the fees collected from students and contribution from the trust. Welfare measures namely provident fund, employees insurance, fee concession on for the children of employees, medical, maternity leave and on duty with full pay are provided by the college. Sponsorship of faculty to pursue higher education and additional allowance to HOD, Dean, training and placement officers are provided by the institute. As a policy of the institute 10% research incentive grant to the faculty having research projects to their credits. The institute has developed well structured mechanism to assess the performance appraisal of teaching staff. The feedback of student regarding teacher is one of the parameter for appraisal of faculty. IQAC is proactive in quality enhancement by its regular and systematic review of teaching learning processes, learning outcome, extension activities and collaborations. It conducts regular meetings and suggestions received are addressed by the institution time to time. IQAC is involved in the policy decisions, academic calendar, performance appraisal and review of perspective plan.

Criterion7 - Institutional Values and Best Practices (Key Indicator and Qualitative Metrices(QlM) in Criterion7)	
7.1	Institutional Values and Social Responsibilities
7.1.1 QlM	**Measures initiated by the Institution for the promotion of gender equity during the last five years.**
7.1.3 QlM	**Describe the facilities in the Institution for the management of the following types of degradable and non-degradable waste (within 500 words)** • **Solid waste management** • **Liquid waste management** • **Biomedical waste management** • **E-waste management** • **Waste recycling system** • **Hazardous chemicals and radioactive waste management**
7.1.8 QlM	**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 QlM	**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 QlM	**Institution celebrates / organizes national and international commemorative days, events and festivals (within 500 words).**
7.2	Best Practices
7.2.1 QlM	**Describe two best practices successfully implemented by the Institution as per NAAC format provided in the Manual.**
7.3	Institutional Distinctiveness
7.3.1 QlM	**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 provides safe and secure atmosphere to its stakeholder. Women empowerment cell and prevention of sexual harassment committees are functional. The CCTV surveillance with security guards, fire extinguisher, girl's common room and a counseling room are in place. The sanitary napakin disposal incinerator and vending machines are well maintained inside the campus to ensure health and hygiene, Transportation facility for girls from hostel to academic block is available during regular hours as well as beyond working hours. The college has a green and ecofriendly campus and manages degradable and non

degradable waste effectively through recycling. The college has installed solar power plant, biogas plant, has conducted green energy and environment audits. The institute ensure a barrier free environment through ramps, disabled friendly washrooms and divyangan accessible screen reading software. The disposal of waste is managed with the aim to reduce, reuse and recycle on the campus. NSS and NCC camps have organized to raise their awareness level on societal issues, make them participate in Swachh Bharat campaign, tree plantation and waste disposal and management. Yoga center and health center is well facilitated. Paper waste is recycled through recognized agencies, e-waste is also properly managed. Institution organized national festivals and birth/ death anniversary of great Indian personality and programs for promotion of national values, human values, national integration and communal harmony. Orientation session for teaching and non-teaching staff on Constitution of India and professional ethics is conducted in the beginning of academic year. The two best practices of college are "Societal connecting activities" and "Alva-pragati mega open placement drive"

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

Overall Analysis

Strength:

1. Supportive management with high academic, Innovative research interest.
2. State of art facilities in smart classrooms, equipped laboratories.
3. Good committed young faculty
4. Comprehensive use of ICT by teaching faculty makes learning effective.
5. Availability of the online learning resources from NPTEL, shodh-sindhu, shodhganga and consortium of VTU.
6. Well Established Cultural, games and sports infrastructure.
7. Noteworthy active collaborations and MOUs with teaching, research, industrial and non-government organizations.
8. Value added laboratories to enrich the content beyond syllabus.
9. Safe and secured campus.
10. Well maintained and eco-friendly WiFi campus

Weaknesses:

1. Limited scope for revision and modification in curricular and examination reform.
2. Most of the students are with rural background and poor communication skills.
3. Absence of industries in the region.
4. Faculty retention
5. Limited Research, Consultancy and Industry collaboration

Opportunities:

1. Regional specific courses
2. Innovation, incubation and Startups based on current industry need
3. Value added research laboratories are useful platform to bring innovative ideas of student and faculties to reality to generate resources.
4. Addition of PG courses in engineering, provisions of the selective courses from SWAYAM and NPTEL will offer complementary knowledge and skill component to the students.

5. Participation of the motivated faculties towards Research, Funded projects, consultancy and participation in workshops/ learning programs at national and international level.

Challenges:

1. Faculty retention due to rural location.
2. Due to different socio-economic background of the students, possess challenge to plan the teaching learning process.
3. Employability with good companies and good packages
4. MOUs with major companies and major Research institutions
5. Dwindling admissions

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)

- P.G. programs in engineering be started.

- Research and innovation ecosystem to be strengthened

- Encourage the faculty and research scholars to publish quality research papers in good quality peer-reviewed Scopus journals

- Placement and career guidance needs to be strengthened.

- Increase collaborations with good research laboratories and enhance interdisciplinary research

- Representation of women on various committees need to be increased

- Community involvement be increased in extension activities

- Lifts to be provides in both hostels

- Stadium for indoor games and sports

- Faculty cadre ratio to be maintained and senior faculty to be recruited

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. SURESH VARMA PENUMATHSA	Chairperson	
2	DR. MALABIKA DEO	Member Co-ordinator	
3	DR. VIJAY THAKARE	Member	
4	Dr. Neelesh Pandey	NAAC Co - ordinator	

Place

Date

Sl.No	Name		Signature with date