INSTITUTIONAL ASSESSMENT AND ACCREDITATION
(Effective from July 2017)

Accreditation - (Cycle - 1)

PEER TEAM REPORT ON

INSTITUTIONAL ACCREDITATION OF
DR. B. R .AMBEDKAR INSTITUTE OF TECHNOLOGY

Port Blair
744103

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. B. R .AMBEDKAR INSTITUTE OF TECHNOLOGY Port Blair Andaman and Nicobar
2.Year of Establishment	1984
3.Current Academic Activities at the Institution(Numbers):	
Faculties/Schools:	-
Departments/Centres:	3
Programmes/Course offered:	3
Permanent Faculty Members:	13
Permanent Support Staff:	66
Students:	366
4.Three major features in the institutional Context (Asperceived by the Peer Team):	1. It is a unique institute with ISO-14000 Certification running Diploma, Degree and Maritime courses with optimal utilization of Infrastructure and resources. 2. The college has adequate infrastructural facilities and strives hard to impart contemporary technical education. 3. Government, Co-education Institution affiliated to Pondicherry University with approval from AICTE for its undergraduate engineering programmes.
5.Dates of visit of the Peer Team (A detailed visit schedule may be included as Annexure):	Visit Date From : 06-04-2018 Visit Date To : 07-04-2018
6.Composition of Peer Team which undertook the on site visit:	
Chairman:	N
Member Co - ordinator:	N Alagumurthi
Member:	Gopal Chandra
NAAC Co - ordinator:	DR. DARIKHAN KAMBLE

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
1.2	Academic Flexibility
1.3	Curriculum Enrichment
1.3.1 QlM	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 offering three B.Tech programmes in Civil, Electronics & Communication and Computer Science Engineering. It also offers Certificate / Diploma and three Maritime Programmes. The curriculum at the B.Tech level is designed and developed by the affiliating Pondicherry University. The B.Tech programmes are under semester pattern. The academic calendar is prepared in line with the affiliating University by including the schedule for the conduct of internal assessment, remedial classes along with the co-curricular activities. Course files are prepared by each faculty for their respective subjects which contains the programme objectives and outcome, course outcome, learning outcome, teaching and evaluation tool with students activity. The programme objective and outcome needs to be well articulated. The syllabus, question papers, notes, NPTEL materials, PPTs, lab manuals and videos for each subject is provided in the library as well as in the Student Information System. Quality of the students projects is measured based on real-time application, innovativeness, product / process re-engineering and cost effectiveness of the system. The institution ensures the effective implementation of the curricula and observes the completion of the course from time to time. Value added courses like Tod-Fod-Jod, knowledge and skill transfer, Focused Group Activity; short term courses on MATLAB, Android have been introduced to bridge the gap between curricula and industry. At least one teacher from the college is participating in the BoS and Academic Council of the University during the last five years. Core electives offered by the University are adopted. However, it is less in number. Professional, Ethical, Environmental Science subjects are included in the curriculum for the holistic development of the students. The institution is having e-feedback system in which students can give their feedback and suggestion. In addition an open forum to address students concerns is conducted once in a year. The college needs to develop a structured mechanism to collect and analyse feedback from all stakeholders on the curriculum.

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, after admission and organises special programs 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
2.3.4 QlM	Innovation and creativity in teaching-learning
2.4	Teacher Profile and Quality
2.5	Evaluation Process and Reforms
2.5.1 QlM	Reforms in Continuous Internal Evaluation(CIE) system at the institutional level
2.5.2 QlM	Mechanism of internal assessment is transparent and robust in terms of frequency and variety
2.5.3 QlM	Mechanism to deal with examination related grievances is transparent, time-bound and efficient
2.5.4 QlM	The institution adheres to the academic calendar for the conduct of CIE
2.6	Student Performance and Learning Outcomes
2.6.1 QlM	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 QlM	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
Admission of students is done as per the approved criteria of Andaman and Nicobar administration. The college organizes orientation / induction programmes for freshers. Slow learners are identified after the first unit test and separate coaching classes are arranged. Their performance is monitored continuously. Special attention need to be given to advanced learners to improve their skills further and perform better in the University Examinations. Focused Group Activity is done in all semesters which helps the students in developing knowledge, skill, attitude and confidence. The lesson plans are uploaded in the intranet portal of the Institute. Monthly attendance and the marks scored by the students in the internal tests are uploaded in the Student Information System. Audio visual classes, interactive and collaborative learning, professional practice classes, project works, workshop, symposium and industrial visits are some of the student centric approaches adopted by the institute. There are 13 permanent teachers, 10 temporary teachers and 11 guest faculty. Four have Ph.D and the rest are having only post graduate degree. Permanent teaching faculties having only PG degree be encouraged and facilitated to pursue doctoral research. Teaching faculties are appointed through UPSC. Selection of Contractual / Guest faculty is done by an approved panel through a process of written examination and interview. Efforts to fill up the vacant positions to be initiated by the institute. College does not satisfy the student-teacher ratio as per AICTE norms. Service conditions of the teachers to be maintained as per AICTE / UGC norms. The e-feedback mechanism about the teachers is appreciable. Evaluation process framed by the affiliating University is followed. The examination related grievances are addressed by the college. The pass percentage of students in the final university examination is low and needs improvement. The programme outcomes and programme specific outcomes needs to be clearly stated and detailed analysis

of attaining programme outcome be made to improve the teaching-learning process.

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 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 QlM	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 should make efforts to mobilize resources for active research. Research facilities to carry out research needs to be created. Provision for seed money to carry minor / major research projects to be introduced in the budget. A few teachers have contributed in books, chapters and contributed a few research papers in National / International conferences. Civil Engineering, Computer Science Engineering and Electronics and Communication Engineering departments have taken up some consultancy projects in collaboration with industries. Structured mechanism for consultancy needs to be developed. Familiarization of intellectual property rights is not seen. However, three patents have been filed. The college needs to galvanize its research initiatives. The college needs to make efforts to create an eco-system for innovations and other initiatives for creation and transfer of knowledge. The teachers are to be motivated to take part and present papers in national / international conferences which will give them a better exposure. Extension activities include cleaning of all water bodies, beaches, garbage disposal plan for Dollygunj, handling e-waste, community related challenges and visits to homes of disadvantaged. The college has some linkages for faculty exchange, student exchange, internship etc during the last five years. The college has two functional MOUs.

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 facilities for teaching- learning. viz., classrooms, laboratories, computing equipment, etc.
4.1.2 QlM	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 QlM	Library is automated using Integrated Library Management System (ILMS)
4.2.2 QlM	Collection of rare books, manuscripts, special reports or any other knowledge resources for library enrichment
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 has a campus area of 21 acres with 18,450 sq.m. built up area with sufficient class-rooms, laboratories, drawing halls, library, conference rooms and staff rooms to cater to the needs of existing programmes. In addition, the campus is equipped with separate boys and girls hostels with recreational facilities and Gym, Co-operative store, canteen, auditorium, multipurpose halls for indoor games. Adequate infrastructure exists for administrative, co-curricular and extra-curricular activities. However the college should become more sensitive to the physically disadvantaged students. Library is partially automated. It has 8984 titles and 47,461 volumes, e-journals, print journals, periodicals, news papers, educational CDs. The library has a spacious reading room. A separate internet browsing section with 10 computers having broad band and Wi-Fi connections are available. Efforts to acquire collection of rare books, manuscripts or any special reports enriching the library to be undertaken. The library to be augmented with back volumes, reference books and digital resources. A qualified permanent librarian to be appointed. A Green Building as per IGBC norms is newly built with energy conservation and environmental friendly aspects. 480 computers with LAN connection is available. Wi-Fi facility is available to access the intra-portal. 53 licensed software's are available in the institute. A central power back up facility is available. The repair and maintenance of buildings and residential quarters are carried out through APWD. Electrical maintenance is carried out by Maintenance Cell and computing facilities are maintained by the Computer Department. Established systems and procedures seen for maintaining and utilizing the physical facilities.

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	Presence of an active Student Council & representation of students on academic & administrative bodies/committees of the institution
5.4	Alumni Engagement
5.4.1 QlM	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
For every class, one class representative from both boys and girls are appointed and CR meetings are conducted at department level and top management level to address student related issues. Good indoor facilities are available for sports and games and it is optimally utilised. The sports, literary and cultural committee secretaries along with its members take care of the conduct of sports, cultural and literary events. NSS volunteers undertake tree planation and cleaning. Swatch Bharat Abhiyan is taken care. In addition, there are various clubs for spoken English, Habitat, Environment and Hobby. Nine different activities like PRATHIDAN, LG Relief Fund, addressing e-waste etc, under social challenges SoCh are undertaken. The students progression towards higher education and employment needs to be documented. For the hostel students from the Islands lodging is free and the boarding is totally taken care of by Andaman & Nicobar Administration by providing a stipend of Rs. 1500/- per month on production of permanent family residence certificate. The college has a registered Alumni Association. The alumni are presently working in Local, National and International organizations. The Alumni Executive Committee was reconstituted during 2016. Some of the activities of the Alumni include organizing Guest Lectures, Technical Symposiums, Industrial visit for students, Career Counselling sessions, taking up joint projects and sponsoring prizes for meritorious students. The executive committee meets once in a month. The activities of the association needs further strengthening.

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 an effective leadership in tune with the vision and mission of the institution
6.1.2 QlM	The institution practices decentralization and participative management
6.2	Strategy Development and Deployment
6.2.1 QlM	Perspective/Strategic plan and Deployment documents are available in the institution
6.2.2 QlM	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 QlM	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 QlM	The institution has effective welfare measures for teaching and non-teaching staff
6.3.5 QlM	Institution has 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
6.5.5 QlM	Incremental improvements made during the preceding five years *(in case of first cycle)* Post accreditation quality initiatives *(second and subsequent cycles)*

Qualitative analysis of Criterion 6
The Vision, Mission and Objectives of the Institution are well defined. Conduct of regular meetings by the Principal, Management Representative and Heads of Departments present a platform to formulate plans of the college and help in effective implementation of the policies. The institute promotes a culture of participative management. The authorities may initiate proactive steps to address the various sensitive issues pertaining to the teachers. Various activities of the institute are decentralized and decisions are taken by discussion and co-ordinating with all departments, administration and regulatory bodies. Various committees are formed for the smooth functioning of the day to day activities. The institution has come out with a suitable perspective plan for the college but needs to evolve strategies to implement them in a phased manner. The implementation of e-governance in Planning and Development, Administration, Finance and Accounts, Student admission and support and examinations is seen. Both teaching and non-teaching staff can avail the college staff welfare fund. A co-operative welfare society PSCCS has been set up for the convenience of resident hostellers, day scholars and residential staff. Some of the other welfare measures include leave tour concession, annual free

sea passage, medical reimbursement, staff quarters, insurance, gratuity and pension. Financial support for attending conferences / workshops is available but the faculty members are to be encouraged to attend refresher courses, National and International conferences. The college conducts professional development programmes for the faculty members. The institution follows the performance appraisal for teaching and non-teaching staff. Since it is a government institute, funds are made available through Andaman and Nicobar Administration. The financial audit is carried out by Controller and Auditor General (CAG) once in two years. Some audit objections have been observed by the Peer Team and the college needs to rectify the discrepancies. The college has an IQAC but its activities need to be strengthened. IQAC should set standards and bench marks for quality sustenance and enhancement and all the initiatives are to be documented. Proper follow up of academic and administrative audit to be carried out and proper procedures are to be set up.

Criterion7 - Institutional Values and Best Practices (Key Indicator and Qualitative Metrices(QlM) in Criterion7)	
7.1	Institutional Values and Social Responsibilities
7.1.2 QlM	1. Institution shows gender sensitivity in providing facilities such as: 1. Safety and Security 2. Counselling 3. Common Room
7.1.5 QlM	Waste Management steps including: • Solid waste management • Liquid waste management • E-waste management
7.1.6 QlM	Rain water harvesting structures and utilization in the campus
7.1.7 QlM	Green Practices • Students, staff using a) Bicycles b) Public Transport c) Pedestrian friendly roads • Plastic-free campus • Paperless office • Green landscaping with trees and plants
7.1.18 QlM	Institution organizes national festivals and birth / death anniversaries of the great Indian personalities
7.1.19 QlM	The institution maintains complete transparency in its financial, academic, administrative and auxiliary functions
7.2	Best Practices
7.2.1 QlM	Describe at least two institutional best practices (as per NAAC Format)
7.3	Institutional Distinctiveness
7.3.1 QlM	Describe/Explain the performance of the institution in one area distinctive to its vision, priority and thrust

Qualitative analysis of Criterion 7

The college takes care of gender sensitivity. Every year programmes have been conducted on gender sensitivity. CCTV has been installed in the corridors, drawing halls and auditorium. Common rooms separately for boys and girls need to be arranged. Environmental Management System has been established. Kitchen waste from hostels, staff quarters and canteen is collected and converted to organic manure. An Effluent Treatment Plant (ETP) is established to treat waste water. A mini bund / check dam roof top rain water harvesting and rain water storage tanks are installed. The college adopts green practices like staff and

students using public transport, use of paper bags, recycling of waste paper and so on. Efforts may be undertaken to move towards completely paperless administration. The initiatives on green campus and waste management are appreciable. Utilisation of solar energy is in place. The college organizes national festivals and birth / death anniversaries of great Indian personalities like Gandhi Jayanthi, Independence Day, Republic Day, National Unity Day, Womens Day and the like. The college conducts rope-in-programme and SoCh activity to inculcate human values and professional ethics in students. System Based Innovative Approach for Technical Education and addressing Social challenges in and around Port Blair through SoCh are the two identified best practices of the college. Through this the college strives to engage with and contribute to the local community. The institutional distinctness is to prepare students who are able to contribute for societal development through the technical knowledge and skill they acquire.

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

Strength -

1. The college has sprawling campus with scope for further expansion.
2. Adequate infrastructural facilities.
3. Proactive and participative management.
4. Good rapport with external stake holders.
5. Healthy academic environment.
6. Committed faculty and good work culture.

Weakness -

1. Industry-Institution interface is limited.
2. College lacks formal linkages with organizations of repute in India and abroad.
3. Limited number of Doctorate degree holders.
4. Use of ICT in teaching –learning process is limited.
5. The pass percentage of students in the University examinations is not satisfactory.

Opportunities -

1. It has opportunities for the introduction of more industry oriented Interdisciplinary programmes / courses.
2. It has also good opportunities for fetching extra mural funding for research and development.
3. It has opportunity to establish technology business incubator for entrepreneurial development.
4. The college can use the goodwill of alumni and other stakeholders to increase the resource generation.
5. The college has also the opportunity of attracting high quality faculty to fill up the vacant posts.

Challenges -

1. The poor communication skill of the students.
2. Attracting motivated and quality students from Islands and mainland.
3. To place the students in reputed Industries / organisations.
4. To adopt and follow the concept of Outcome Based Education.
5. To establish separate facilities and human resources for the under graduate engineering programmes.

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)

- Efforts to be undertaken to create ambience, infrastructure, facilities giving more leverage to the UG Engineering programmes

- A more detailed perspective plan to be prepared and strategy development of the college implemented in a phased manner.

- All the vacant positions to be filled immediately and existing Faculty members may be encouraged to upgrade their qualifications leading to Ph.D.

- Library needs to be automated completely and digital facilities to be enhanced

- Career guidance and coaching for competitive examination to be initiated

- Communication skill of the students and increased use of ICT in teaching – learning process may be adopted.

- Faculty may be motivated and supported for taking up active research and extramural research projects of societal importance to enhance their career and competence

- A consultancy cell needs to be established to develop and publicize creditable consultancy.

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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	N	Chairman	
2	N Alagumurthi	Member Co - ordinator	
3	Gopal Chandra	Member	
4	DR. DARIKHAN KAMBLE	NAAC Co - ordinator	

Place

Date