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Bapuji Educational Association[®] Bapuji Institute of Engineering and Technology

Post Box No.: 325, Davanagere – 577 004, Karnataka, India.

(Affiliated to Visvesvaraya Technological University and Approved by AICTE, New Delhi)

Accredited by NAAC with 'A' grade and NBA

Recognized by UGC, New Delhi under 2(f) and 12(B)

NAAC Cycle 2 Accreditation : Executive Summary

Introduction

Bapuji Institute of Engineering and Technology (BIET) is a self-financing unaided private Institute established in the year 1979 by the prestigious Bapuji Educational Association (BEA), Davanagere. The Institute has achieved a new height in value-based technical education and has made an indelible impression on the educational map of India, through the foresight and proactive approach under the leadership of Dr. Shamanur Shivashankarappa, Honorable secretary of BEA, Chairman of BIET and sitting MLA of Davanagere (South) constituency and Sri. S S Mallikarjun, Joint Secretary, BEA and former Cabinet grade Minister of Karnataka. BIET is currently affiliated to Visvesvaraya Technological University (VTU), Belagavi. At present, Institute offers 13 UG programs with a total intake of 1060 and 4 PG programs with a total intake of 282. Also, the institute promotes research, through its 14 recognized research centres. BIET is one of the most sought-after Institutes in south Karnataka and is rated as one of the top ten technical Institutes in the state of Karnataka. BIET is recognized by AICTE and UGC under 2(f) & 12(b) and it was accredited by the NBA, during the years; 2000, 2004 and 2008. In the year 2021, four UG programs viz. Civil Engineering, Mechanical Engineering, Computer Science and Electronics and Communication are accredited by NBA for 3 years and in the year 2022, the Electrical and Electronics Engineering UG Program is also accredited by NBA for 3 years. Institute has secured 'A' grade from NAAC in the year 2017. BIET has dedicated and highly qualified teaching faculty members who have R & D projects sponsored by leading National funding agencies. Institute is having lush green campus and good infrastructure facilities viz. spacious classrooms, library, laboratories with state-of-art equipment, seminar halls, guest house, hostels and hi-tech indoor auditorium. BIET has established the New Age Incubation Network (NAIN) centre, Skill development centres, numerous MOUs for industryinstitute interaction.

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VISION OF THE INSTITUTE

"To be a center of excellence recognized nationally and internationally, in distinctive areas of engineering education and research, based on a culture of innovation and invention"

MISSION OF THE INSTITUTE

"BIET contributes to the growth and development of its students by imparting a broad based engineering education and empowering them to be successful in their chosen field by inculcating in them positive approach, leadership qualities and ethical values"

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Criterion 1 : Curricular Aspects

BIET is affiliated to the VTU. The university prepares curriculum for both UG and PG engineering programs. In line with university academic calendar, Institute academic calendar and department calendar of events are prepared for effective implementation of curriculum. To check the program effectiveness and to take necessary actions for further improvement, at the department level, Department Advisory Board, Program Assessment Committee and Department Quality Assurance Cell are constituted as per the guidelines given by Internal Quality Assurance Cell (IQAC) of the Institute. All faculties are informed to prepare the course file for the subjects handling as per the check list given by IQAC of the Institute. Faculty members are encouraged to implement innovative teaching methodologies for effective implementation of teaching-learning process apart from conventional black board teaching. As per the curriculum, practical/laboratory sessions will be conducted across all the programs. At the end of semester, examination for the theory and practical courses are conducted by VTU. Curriculum framed by VTU for both UG and PG programs includes courses which integrate crosscutting issues relevant to Professional Ethics, Human Values, Environment and Sustainability. As per the curriculum, Final year UG students carry out project work in groups (Maximum 4) and final year PG students carry out the project work individually under the guidance of allotted faculty member of the department. Final year students also undergo internship. Institute adopts a proper mentoring system for the holistic growth of students. Institute obtains feedback on the curriculum, department and Institute from the stakeholders, which is analysed and actions are planned which serve as input for the continuous improvement in teaching-learning process.

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Criterion 2 : Teaching Learning and Evaluation

The Institute has a diverse student population representing various geographical regions and ethnicities, and provides appropriate resources to meet their varied educational requirements. This diversity attests to the popularity of the Institute for its teaching, learning and resources. The Institute follows a clear and straightforward admission process in accordance with the Rules and Regulations of the Government of Karnataka. On an average, Institute has an enrolment rate of about 85%. Institute has highly qualified and experienced teachers with doctoral degrees and some are currently pursuing their doctoral research. The Student-faculty ratio of 20:1 is maintained to create a learner-centric environment. Highly qualified and competent faculty members use ICT tools to make the teaching-learning process more effective. Experiential learning techniques, problem-solving methodologies, collaborative projects etc. are adopted as teaching-learning approaches. Classrooms are provided with LCD projectors and students have access to e-repositories through the digital library. Each student is allotted with a faculty mentor. Students are supported in their aspirations related to academics, career plans; to air their grievances and cope with issues which may impede their progress. There is a grievance redressal system which is strong and responsive to students' issues. This Institute is affiliated to VTU and follows University rules and regulations for assessment and evaluation processes. Students' performance is evaluated through formative assessments/CIEs and summative assessment/SEEs. The Institute has adopted Outcome Based Education (OBE) in it's teaching and learning process. Course Outcome (CO) statements are framed for every course and are mapped to 12 Program Outcomes (POs) given by NBA. Based on the formative and summative assessments, the set target levels and set attainment levels for a program, attainment levels of POs and PSOs of all the courses of a program are computed. To bridge the curriculum gap and to address all the POs, site/industry visits, technical talks, seminars, workshops etc. are organized by all the Departments.

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Criterion 3: Research, Innovations and Extension

BIET has established Research and Development (R & D) cell to enable ecosystem for fostering research culture among faculty and students. Institute is having 14 research centres recognised by VTU and Management provides necessary financial support for the development of Research centres. Research Advisory Committee (RAC) of the institute guides and periodically assess the research activities of all the centres. BIET has established incubation centre in collaboration with 'New Age Innovation Network (NAIN)' Government of Karnataka and received research grants for 20 research projects in two Phases. Projects funded in Phase 1 are completed and institute is planning for incubating outcomes of the projects through local entrepreneurs. Faculty members are actively involved in quality research and presently guiding 37 research scholars in different domains. Institute has received research grants of Rs. 1.5 crores for innovative projects from various funding agencies. Workshops/seminars/conferences are organised by the institute on Research Methodology, Intellectual Property Rights (IPR) and Awareness programs on entrepreneurship, which are supported/funded by ISTE, IE (I)-Davangere Local centre and Institute. Faculty members are also motivated to organise and participate in workshops, seminars, conferences by providing financial assistance towards registration fees and travel expenses. About 421 research papers are presented/published in National, International Journals notified by faculty members and research scholars in last five years. Institute is having collaborations with R & D centres, industry and academia for research promotion and signed Memorandum of understanding (MOU) for faculty exchange, student exchange, internship and skill-based training to enhance student's employability. BIET has in-house Entrepreneurship Development Cell (EDC), through which students interact with successful entrepreneurs. Institute also conducts number of extension programmes like blood donation, Health check-ups, field training, AICTE Activity Point Program in collaboration with IQAC, IIC, ISTE, IE (I), NGOs, NCC, NSS, Youth Red Cross and department forums.

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Criterion 4: Infrastructure and Learning Resources

The Institute has state-of-the-art infrastructure with adequate facilities for effective teaching and learning. Infrastructure facilities are provided by abiding the standards and norms specified by regulatory authorities and the Government. The Institute is strategically located in a sprawling campus with much emphasis given for go green initiatives. The Institute has a student-centric facility such as ICT- enabled classrooms, modern laboratories, seminar halls, and a library with a good number of reference books and digital library facilities having open access to books, periodicals, e-journals, VTU consortium and e-resource with OPAC system. The Institute has 24X7 internet facilities for faculty and students with a bandwidth of 100 Mbps and an uninterrupted power supply of 450kVA. The Institute has adequate computing facilities. In order to keep pace with ever emerging needs of IT, the Institute has a practice of reviving and upgrading the IT infrastructure on a priority basis. The institute facilitates ERP software for accessing the information related to students. Institute has a well-equipped auditorium with a capacity 660 seats to support co-curricular, technical symposia, national and international conferences. In addition, each department has it's own seminar hall with a capacity of 100 seats. The Institute has well- equipped indoor-outdoor physical education facilities such as a mechanized gym, indoor games facilities including carom, chess, badminton etc.. There are separate hostels for boys and girls housed in the campus with the capacity of 608 seats for boys and 300 seats for girls along with amicable facilities ensuring utmost safety to the students. A separate maintenance team is available on the campus to ensure a perfect ambience. The Institute provides additional facilities such as reverse osmosis plant for drinking water, lift in each block, captive power generation of 880kVA, health care center, Bank, NSS, youth red cross, NCC etc.

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Criterion 5: Student Support and Progression

BIET has understood the importance of broad based education and has created a conducive environment for the students to blossom into complete individuals. BIET believes in inculcating right attitude in the minds of young students and develop them as individuals who have the innate desire not just to succeed in their own lives but also to contribute meaningfully to societal development in all possible spheres. The campus is safe and secure for the students and is known for its discipline. At the institute level, there is an Anti-Ragging committee heading by the Principal and Director. Institute has Grievance Redressal Cell for students to file their grievances on college related issues. There is also Women Empowerment Cell and Anti Sexual Harassment cell to address problems of girl students. Institute provides awards to meritorious students in addition to the scholarships available for reservation categories. Apart from this, top students from all the departments of every semester are identified and awarded with cash prizes. The institute has MOU with "Career Gyan" which support students to pursue their higher studies in top universities. For encouraging the students to participate in cultural events, "Students Welfare Council" is established. Mega cultural festival "Davana" is conducted for three days in which competitions from music, theatre, fine arts, dance and literary sections are held. In addition to this, every department conducts many sports and cultural competitions for their own students and other departments. To encourage multi-dimensional growth for students, BIET provides top infrastructure and modern sports facilities. Institute provides reward/financial incentive for the students representing in National/State/University level events. To inculcate entrepreneurship qualities among the students, "Entrepreneurship Development Cell" is initiated. Placement cell guides the students to prepare for interviews by arranging personality development programs, skill development programs, communication skill development activities, group discussions, technical quiz and tests etc. Institute is having good placement record over the past five years and interested students of the Institute have pursued higher studies in reputed institutions. Alumni have generously contributed and built "Silver Line Guest House" in the institute campus.

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Criterion 6 : Governance, Leadership and Management

BIET is established in the year 1979 under BEA. The constituted governing Council (GC) of BEA nominates the members of Governing Body (GB) for which the Principal is the member secretary. The institute has an effective governance mechanism in accordance with the Vision and Mission through practicing decentralization and participative management. The governance mechanism involves Principal, Deans, Head of Departments, and members of various committees. Each of the functionaries have well defined set of roles and responsibilities. GB takes decisions related to the strategic plan, policies, rules and regulations, budget, purchase, appointments, deputing faculty to higher study, opening of new programme and welfare measures for staff and students. The Institute has a policy and strategy for mobilising resources. The financial transactions of the Institute are subjected to regular internal and external audit. IQAC facilitate the integration of the various activities of the Institute and institutionalize the best practices. IQAC is responsible for the quality standards in teaching and learning, evaluation, research and environmental sustenance. IQAC also monitors the academic progress of the Institute by conducting departmental inspection and academic audit regularly and has feedback mechanism for overall growth of the Institute. The faculty performance is reviewed through appraisals by considering various parameters of teaching-learning process and other achievements. Faculties are encouraged to attend FDPs, workshops, seminars and conferences by extending necessary financial support and leave. The institute conducts training programmes to students throughout the year to improve the placement. Institute has constituted 12 different committees for smooth functioning of the academics and it's growth. The constituted grievances redressal cell and College Internal Complaint Committee (CICC) resolve the grievances of students and faculty. The anti-ragging committee and squad give surprise visits to the Institute hostels regularly to curb the ragging. To prevent ragging, college has displayed the notices in the campus and hostels notice boards as per UGC guidelines.

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Criterion 7: Institutional Values and Best Practices

BIET is committed to impart quality education so that the overall skills of students are improved and the student will best suit the present-day requirements. This has been achieved through a well-structured mechanism developed over the years. BIET provides equal opportunity for all to participate in administrative, co-curricular and extracurricular activities. Male and female staff members and students are treated equally. BIET puts lot of efforts in promoting patriotism, human values, community concern, harmony etc. Many commemorative days and events are organized in the institute throughout the year. The institute gives due importance for conservation of energy and utilization of alternative sources of energy. The solid wastes generated in the campus and in the hostels are segregated as biodegradable, non-biodegradable waste and e-waste. There are four water harvesting pits provided in the campus which serve as water conservation units. BIET Initiatives for Green Campus (BIGc) takes the lead in rethinking new paradigms for solving problems that are local, national and global. Measures have been taken to provide disabled friendly and barrier free environment throughout the campus. 'Sarve Janah Sukhino Bhavantu' is the famous quote which says let everyone stay happily with tolerance and harmony. BIET believes in this quote completely and has created an atmosphere where every stakeholder can freely involve, interact and improve. Best Practices adopted in the institute are Counselling and skill development programs for students - "Diksoochi" and Project based learning and Industry interaction - 'Jnana Soochi'. Through 'Diksoochi', all efforts are made to extend proper counselling to students. 'Diksoochi' has strengthened the minds of the students which has been clearly indicated in their performance. 'Jnana Soochi' promotes innovative thinking among the students and faculty through their participation in industry related projects. Through this module, much success has been witnessed over the last three years.

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Strengths, Weaknesses, Opportunities and Challenges (SWOC):

A meeting of the Principal, the Director, the Heads of the respective Departments, the Deans and IQAC was called to identify the strengths, weaknesses, opportunities and the threats / challenges i.e. SWOC. The respective department heads were informed to identify the SWOC of their department through an extensive interaction with the stakeholders viz. students, faculties, alumni, parents, industry, employers. SWOC analysis of all the departments were collected and compiled. Several meetings were held at the Institute level and SWOC of the Institute was finalized.

Strengths:

- 1. Good visionary, supportive and committed management.
- 2. Geographically located in central Karnataka.
- 3. Good infrastructure facilities having spacious classrooms, laboratories with state-of-art equipment, seminar halls, guest house, hostels and hi-tech indoor auditorium.
- 4. State of the art facility in institute's central library.
- 5. Qualified and experienced faculty with wide range of engineering and basic science domains.
- 6. Advanced teaching-learning process for curriculum enrichment.
- 7. University recognized research centers in all the programs.
- 8. Good track record of students in university examinations.
- 9. Good campus placement
- 10. Encouragement for extra and co-curricular activities.
- 11. Active Alumni association.
- 12. Well placed Alumni in India and Abroad.
- 13. Strong administrative system with ERP.
- 14. Active industry-institute interaction.
- 15. Active consultancy for public and social sectors.

Weakness:

- 1. Less collaborative research with premier organizations.
- 2. Lesser number of publications in indexed journals.
- 3. Lesser number of research grants and funded research projects.
- 4. Lack of initiative in the process of publishing and acquiring patents.
- 5. Lack of full time research scholars.

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Opportunity:

- 1. Obtaining Autonomy status from university.
- 2. Starting new UG and PG programs.
- 3. Networking with NITs, IITs and industries for research and academic interaction through MoUs.
- 4. Enhancing research activities through government funding agencies.
- 5. Establishing skill development centre / centre of excellence / startups / incubation centre.
- 6. Organizing programmes to faculty and supporting staff to cope up with changing in education policies.
- 7. Exposing students to hands-on training as per employer requirement.
- 8. Strengthening placement training, self-learning and career advancement activities to enhance the knowledge, skill and attitude level of students.

Threats / Challenges:

- 1. Competition from autonomous and deemed-to-be universities.
- 2. Frequent changes in government policies on admission and fee structure.
- 3. Drastic changes in curriculum and teaching and learning process.
- 4. Fluctuating trend in global economy.
- 5. Decreased admission trend in engineering and technology due to wide availability of other professional programs.
- 6. Fast obsolescence of existing technologies and emergence of new technologies.
- 7. Reduced employment opportunities in core sectors.
- 8. Reduced interest among students to pursue higher studies / research.
- 9. Multiple compliance requirements affecting teaching and research.

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Additional Information:

BIET is having lush green sprawling campus of about 56.70 acres catering to the needs of nearly 3400 students. In an extended campus of BIET with an area of about 8 acres, MBA programme is taught for nearly 240 students. BIET is having good track record of students in university examinations. Many students of the Institute are awarded with university ranks. Many students of the Institute are placed in reputed companies. The alumni of this institute have occupied very good positions in Government sector, business, industry, R&D and academia in India and abroad. The Institute frequently organizes the alumni meet to build a strong alumni network. Four UG programs viz. Computer Science & Engineering (Data Science), Computer Science & Business System (in association with TCS), Computer Science & Design, Artificial Intelligence & Machine Learning (AI & ML) with an intake of 60 each are started from the academic year 2022-23.

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Concluding Remarks:

The Institute follows a democratic and participatory mode of governance with all stakeholders participating in its administration. The Governing Body delegates authority to the Secretary and Principal who in turn share it with the different functionaries. Institute has strategic plan for overall development in a systematic and phased manner in such a way that the short-term and long-term goals are established looking into the vision of the institute. The functioning of academic and administrative work is fully managed by the various deans, HODs and core committees such as IQAC, Staff selection, Finance, Purchase, Research and Development, Examination, Placement &Training, Grievances, CICC, Anti-ragging Squad, Student welfare, SC/ST cell, etc. Faculties spearhead cultural and socially conscious activities through NSS, Youth Red Cross Wing, NCC, sports and student welfare council. The suggestions from all the stakeholders are accepted and are given prominence to improve teaching and learning process. Effective and participative decision making process is adopted to achieve the vision and mission of the Institute.