



**B.M.S. COLLEGE OF ENGINEERING, BENGALURU-560 019**  
Autonomous Institute, Affiliated to VTU

## **BMSCE Strategic Plan 2026–2030**

The BMSCE Strategic Plan 2026–2030 focuses on enhancing academic excellence, promoting research and innovation, strengthening industry collaboration, upgrading campus infrastructure, and advancing student success with global exposure. The plan is driven by **3-year short term goals (STGs)** for the duration 2026–2028 focusing on foundational improvements and **5-year long term goals (LTGs)** for the duration 2026–2030 aimed at achieving excellence and global visibility.

The strategic plan 2026-2030 has been prepared considering the following parameters.

- SWOC analysis conducted by the external expert
- Observations from assessment and accreditation committees.
- Good Governance practices
- Institutional outreach
- Future challenges



**B.M.S. COLLEGE OF ENGINEERING, BENGALURU-560 019**  
Autonomous Institute, Affiliated to VTU

**SHORT TERM GOALS (2026-2028)**

- STG 1: Innovative and Outcome-Based Curriculum Implementation**
- STG 2: Ensure accreditation of all eligible programs by National Board of Accreditation (NBA).**
- STG 3: Industry collaboration and employability.**
- STG 4: Strengthen the Research & Development activities**
- STG 5: Enhance initiatives that foster entrepreneurship, innovation, and institutional visibility.**
- STG 6: Collaborations for societal impact and achievement of Sustainable Development Goals (SDGs).**
- STG 7: Enhance security and cyber security in the campus**
- STG 8: Faculty Development & Human Resource Development**

**SHORT TERM GOALS (2026-2028)**

**STG 1: Innovative and Outcome-Based Curriculum Implementation**

**Goal:** To implement an industry-aligned, outcome-based curriculum through innovative teaching-learning practices, digital integration, interdisciplinary learning, and continuous assessment.

**Key Performance Indicators:**

1. Academic council and BOS meetings with industry experts for implementing industry aligned curriculum.
2. Innovative teaching methods (project-based learning, flipped classrooms, Skill or idea labs).
3. Number of courses integrated with MOOCs (NPTEL/Swayam/VTU online) and credits earned by students.
4. Improvement in student performance, course outcomes, and attainment levels.

**Action Plan:**

- Periodically revise curriculum based on Outcome-Based Education (OBE) framework with structured industry and stakeholder feedback.
- Integrate MOOCs (NPTEL/Swayam/VTU online) with credit-based learning and upgrade digital infrastructure.
- Introduce interdisciplinary electives and competency-based modules as per industry requirement.
- Adopt advanced teaching methods such as project-based learning, flipped classrooms, etc.
- Conduct faculty development programs (FDPs) on OBE, pedagogy innovation, digital teaching tools and capacity building programs.



**B.M.S. COLLEGE OF ENGINEERING, BENGALURU-560 019**  
Autonomous Institute, Affiliated to VTU

**STG 2: Ensure accreditation of all eligible programs by National Board of Accreditation (NBA).**

**Goal:** Attain accreditations for all eligible programs by the National Board of Accreditation (NBA) to ensure quality standards and academic excellence.

**Key Performance Indicators:**

1. Strengthen teaching–learning practices through modern pedagogical methods.
2. Enhance curriculum quality with regular updates and industry-aligned content.
3. Integrate AI-powered tools in few courses for personalized learning, assessment, and continuous feedback.
4. To offer skill-based training to all students through innovative value-added and certificate courses.
5. Strengthen the student faculty ratio

**Action Plan:**

- Conduct FDPs on OBE and pedagogical tools; implement project-based and experiential learning.
- Periodic curriculum revision with industry inputs; introduce industry-oriented electives, internships, and guest lectures.
- Offer value-added and certificate courses, conduct workshops and hands-on training with strong industry collaboration.
- Recruit qualified faculty with PhD.

**STG 3: Industry collaboration and employability**

**Goal:** Enhance industry partnership, practical exposure, research collaboration and enhance student employability.

**Key Performance Indicators:**

1. Sign new MOU's with global recognized, industries/organizations.
2. Industry internship to all UG/PG students.
3. Enhance industry supported laboratory and industry-oriented research projects.
4. One industry supported laboratory in each cluster department.

**Action Plan:**

- Identify potential industry partners and organize industry–academia meetings to establish collaborations and sign MoU's.
- Strengthen internship programs through industry tie-ups and mandatory internship policies.
- Collaborate with industries to establish sponsored labs and undertake joint research projects.



**B.M.S. COLLEGE OF ENGINEERING, BENGALURU-560 019**  
Autonomous Institute, Affiliated to VTU

- Conduct skill development and placement training programs aligned with industry requirements in the relevant domain areas.
- Invite leading companies for campus recruitment and achieve a 95% placement rate with greater participation from Tier-1 organizations.

**STG 4: Strengthen the Research & Development activities**

**Goal:** Enhance research, innovation, funded projects, and interdisciplinary collaboration.

**Key Performance Indicators:**

1. Increase annual quality publications & patents leading to possible commercialization.
2. Expand externally funded research and consultancy projects by exploring new opportunities.
3. Promote research and innovation activities
4. Enhance interdisciplinary activities among students and faculty.

**Action Plan:**

- Ensure quality publications, provide research incentives, and support patent filing and commercialization.
- Motivate faculty to apply for national/international grants and promote industry consultancy. Grant-winning faculty mentoring peers in grant applications.
- Organize conferences, workshops, innovation challenges, and research training programs on cutting edge and futuristic technologies.
- Ensure collaborative research projects (interdisciplinary) and joint publications.

**STG 5: Enhance initiatives that foster entrepreneurship, innovation, and institutional visibility.**

**Goal:** Promote entrepreneurship, innovation, sustainability, student support, and institutional excellence through focused initiatives and strategic collaborations.

**Key Performance Indicators:**

1. Schedule a themed annual startup–innovation event (e.g., idea fest, hackathon, startup expo)
2. Collaborate with incubators, industry mentors, and alumni entrepreneurs to deliver workshops, talks, and hands-on sessions.
3. Establish student advancement centre (mentoring, counselling, competitive exams)
4. Accreditation of laboratories.

**Action Plan:**

- Facilitate yearly innovation-driven events including Idea Fests, hackathons, and startup expos to nurture creative problem-solving.



**B.M.S. COLLEGE OF ENGINEERING, BENGALURU-560 019**  
Autonomous Institute, Affiliated to VTU

- Conduct workshops, mentoring sessions, and talks with incubators, industry experts, and alumni entrepreneurs.
- Centre for mentoring, counselling, and coaching for competitive examinations and career guidance.
- NABL certification of laboratories at least one in cluster departments.

**STG 6: Collaborations for societal impact and achievement of Sustainable Development Goals (SDGs).**

**Goal:** Promote community engagement and strategic partnerships to address societal challenges and advance the SDGs.

**Key Performance Indicators:**

1. Identify and onboard community partners, NGOs, and local bodies to co-design projects aligned with priority Sustainable Development Goals (SDGs).
2. Launch pilot community-engagement initiatives (e.g., waste management, clean energy awareness, water conservation, rural innovation) with measurable outcomes.
3. Organize expert talks, workshops, and student outreach programs to build awareness and encourage participation in SDG-focused activities.

**Action Plan:**

- Identify and establish partnerships with Non-Governmental Organizations (NGOs), community organizations, and local bodies to implement projects aligned with the United Nations Sustainable Development Goals.
- Implement pilot projects such as waste management, clean energy awareness, water conservation, and rural innovation programs.
- Showcase one such activity on campus or in hostels to demonstrate to accreditation agencies that practices align with commitments.
- Organize expert talks, workshops, and student outreach programs focused on SDG themes.
- Renewal of ISO 14001 certification.
- Implement the annual plan of action as per the calendar for NSS/NCC/Rotary/AICTE Activity points/women cell programs.

**STG 7: Enhance security and cyber security in the campus**

**Goal:** Build a safe, secure, and resilient campus environment through enhanced physical security systems and robust cyber security practices.

**Key Performance Indicators:**

1. Upgrade campus surveillance and access control systems, including CCTV coverage, smart ID access, alert mechanisms, etc.,



**B.M.S. COLLEGE OF ENGINEERING, BENGALURU-560 019**  
Autonomous Institute, Affiliated to VTU

2. Strengthen cybersecurity infrastructure by implementing regular vulnerability assessments, firewall updates, and multi-factor authentication for all digital platforms.
3. Conduct awareness programs and drills for students, faculty, and staff on cyber hygiene, data protection, and emergency response protocols.

**Action Plan:**

- Install additional CCTV cameras, implement smart ID-based access control, and establish alert and monitoring systems.
- Conduct regular vulnerability assessments, update firewalls, and implement multi-factor authentication for institutional platforms.
- Ensure regular data backups and maintain resilience plans to address potential data breaches.
- Organize training programs, workshops, and mock drills on cyber hygiene, data protection, and emergency response.

**STG 8: Faculty Development & Human Resource Development**

**Goal:** Build a highly skilled, globally exposed, and motivated faculty team.

**Key Performance Indicators:**

1. Implement Continuous Faculty Development Programs (FDPs) & AICTE-QIP's.
2. Enhance PhD faculty qualification to 75 %.
3. Seek financial support for external agency for International/National conferences.
4. Introduce performance-based incentives for teaching, research, and community service.
5. Strengthen faculty mentoring, appraisal, and career progression systems.

**Action Plan:**

- Organize regular FDPs, workshops, and training on teaching, research, and emerging technologies. Encourage faculty to attend FDPs and AICTE QIP programs.
- Encourage faculty to pursue PhD and recruit qualified doctoral faculty.
- Provide funding support for faculty to attend national and international conferences.
- Introduce incentives for excellence in teaching, research publications, patents, and community service.
- Implement structured faculty mentoring, performance appraisal, and career progression policies.



**B.M.S. COLLEGE OF ENGINEERING, BENGALURU-560 019**  
Autonomous Institute, Affiliated to VTU

**Long Term Goals (2026-2030)**

**LTG 1. Academic Excellence & Curriculum Innovation**

**LTG 2. Research, Innovation & Entrepreneurship.**

**LTG 3. Stronger Industry Collaboration & Employability**

**LTG 4. Global Engagement & Internationalization**

**LTG 5. Sustainability & Social Impact**

**LTG 6: Institutional Branding, Placement, Rankings & Accreditation**

**LTG 1. Academic Excellence & Curriculum Innovation**

**Goal:** Deliver an industry-relevant curriculum that fosters strong interdisciplinary learning.

**Key Performance Indicators:**

1. Implement Outcome-Based Education with periodic curriculum redesign aligned with industry demand.
2. Expand Digital Learning through MOOCs (NPTEL, Coursera, edX) with credit-based online learning integration. (Modernize campus connectivity with Wi-Fi 6.0 and smart campus solutions).
3. Interdisciplinary electives and competency-based modules.
4. Strengthen continuous assessment and advanced pedagogy practices.

**Action Plan:**

- Periodically revise curriculum with industry input and align courses with Outcome-Based Education principles.
- Encourage students to enrol in online courses from NPTEL, Coursera, and edX and integrate credits; upgrade campus connectivity with Wi-Fi 6 and smart campus tools.
- Introduce interdisciplinary electives and skill-based competency modules across programs.
- Implement advanced teaching methods such as project-based learning, flipped classrooms, and continuous evaluation systems.

**LTG 2. Research, Innovation & Entrepreneurship.**

**Goal:** Establish ecosystem for research, innovation, and start-up development.

**Key Performance Indicators:**

1. Increased outcome in terms of patents, technology disclosures, and product innovations.
2. Increase annual Scopus/WoS indexed publications.
3. Establish an Interdisciplinary Research Centre for advanced engineering domains.
4. Launch an Annual BMSCE Innovation Summit.



**B.M.S. COLLEGE OF ENGINEERING, BENGALURU-560 019**  
Autonomous Institute, Affiliated to VTU

5. Convert FRPS Grant ideas to external funded projects.
6. Seek externally funded projects (DRDO, DST, ISRO, AICTE, VGST, GIAN etc.) and explore new avenues for possible funding.
7. Strengthen incubation support and entrepreneurship development programs.

**Action Plan:**

- Encourage patent filing, provide innovation grants, and support prototype development.
- Provide incentives for quality publications and organize research training workshops.
- Create a research centre focusing on advanced engineering domains and collaborative projects.
- Organize an annual innovation summit to showcase research, startups, and technology developments.
- Mentor faculty to transform internal research proposals into external funding proposals.
- Encourage proposals to agencies such as Defence Research and Development Organisation, Department of Science and Technology, Indian Space Research Organisation, All India Council for Technical Education, Vision Group on Science and Technology, and Global Initiative of Academic Networks.
- Provide incubation facilities, mentoring, and startup support programs for students and faculty.

**LTG 3. Stronger Industry Collaboration & Employability**

**Goal:** Strengthen industry partnerships to improve student employability and applied learning.

**Key Performance Indicators:**

1. Strategic MoUs and industry-led initiatives.
2. Provide industry internships for all UG/PG students.
3. Establish Industry Advisory Boards for every department.
4. Industry-Funded Labs across diverse domains.
5. Enhance skill-based training through IDEA/SKILL Labs aligned with future job roles.
6. Structured industrial visits across departments.

**Action Plan:**

- Establish partnerships with leading industries and initiate collaborative programs.
- Implement mandatory internship programs through strong industry tie-ups.
- Form advisory boards with industry experts to guide curriculum and skill development.
- Collaborate with industries to establish sponsored labs in emerging domains.
- Provide hands-on training programs aligned with future industry job roles.
- Organize regular industrial visits to enhance practical exposure for students.



**B.M.S. COLLEGE OF ENGINEERING, BENGALURU-560 019**  
Autonomous Institute, Affiliated to VTU

**LTG 4. Global Engagement & Internationalization**

**Goal:** Position BMSCE as a globally recognized institution through international collaborations.

**Key Performance Indicators:**

1. Improve global visibility and international rankings.
2. Partner with global universities for joint degrees, research, and academic programs.
3. Facilitate student and faculty exchange programs.
4. Host international conferences and invite global experts regularly.

**Action Plan:**

- Promote international collaborations, research publications, and participation in global academic networks.
- Establish collaborations for joint degree programs, research projects, and academic initiatives.
- Facilitate exchange programs, short-term study abroad, and visiting scholar initiatives.
- Organize international conferences, workshops, and expert lectures with global participation.

**LTG 5. Sustainability & Social Impact**

**Goal:** Develop BMSCE as a green, socially responsible, and environmentally conscious campus.

**Key Performance Indicators:**

1. Transform campus into a plastic-free, eco-friendly zone.
2. Reduce energy consumption through solar power and smart energy systems.
3. Promote community outreach projects in villages and government schools.
4. Strengthen NSS, CSR activities, and student-led social engineering initiatives.

**Action Plan:**

- Implement plastic-free policies, promote waste segregation, and conduct sustainability awareness programs.
- Install solar power systems and adopt smart energy management practices across campus.
- Conduct outreach initiatives in villages and government schools focusing on education, health, and sustainability.
- Encourage student participation in social service, CSR projects, community development initiatives, and implement AICTE Activity points.



**B.M.S. COLLEGE OF ENGINEERING, BENGALURU-560 019**  
Autonomous Institute, Affiliated to VTU

**LTG 6: Institutional Branding, Placement, Rankings & Accreditation**

**Goal:** Strengthen national and global institutional reputation.

**Key Performance Indicators:**

1. Improve NIRF ranking and maintain NBA accreditations.
2. Build a strong Institutional Branding & Communication Unit.
3. Highlight research outcomes, student success stories, and alumni achievements.
4. Organize the annual BMSCE Innovation Summit to showcase excellence.
5. Enhance security and cyber security
6. Enhance internship & placement activities

**Action Plan:**

- Strengthen academic, research, and outreach performance to improve ranking in the National Institutional Ranking Framework and maintain accreditation from the National Board of Accreditation.
- Establish a dedicated unit for media communication, digital presence, and institutional promotion.
- Highlight research outcomes, student success stories, and alumni achievements through institutional platforms and media.
- Organize the innovation summit to showcase institutional achievements in research, innovation, and startups.
- Upgrade surveillance systems and strengthen cybersecurity infrastructure.
- Strengthen industry partnerships, skill training programs, and placement drives.

**Principal**  
B.M.S. College of Engineering  
(Autonomous College under VTU,  
Bangalore-19