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## A Multifaceted Transformation of Higher Educational institutions to comply the vision of Viksit Bharat by 2047

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#### Abstract

Transforming higher educational institutions to align with the vision of Viksit Bharat by 2047 would require a comprehensive and multifaceted approach. Viksit Bharat envisions a developed India by 2047, focusing on economic prosperity, social inclusivity, technological advancement, and sustainable development.

To start, Viksit Bharat aims for a developed India, focusing on the four pillars i.e. Economic Prosperity, Social Harmony, Technological advancement, and Sustainable development. Next, we considered the specific strategies and interventions that higher education institutions



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can undertake within each pillar to drive transformation. This initiative also identifies four key stakeholders: administration, academic institutions, teachers, and students. It is also important to consider the diverse landscape of higher education institutions in India, and tailor the framework to accommodate the unique needs and contexts of these stakeholders.

Though some of the initiatives like Curriculum Reforms, Skill Development activities, Research and Innovation, Digital Transformation, Entrepreneurship and Startups, Sustainability Initiatives, and Community Engagement are taken up at the institutional level, Higher educational institutions still need to contribute significantly to the realization of Viksit Bharat's vision by contributing to national development, social progress, and global competitiveness.

Transforming higher educational institutions to align with the vision of Viksit Bharat by 2047 would involve a comprehensive overhaul across various aspects. In Viksit Bharat, therefore, investing in education is not just a priority but a necessity for realizing the vision of a prosperous, inclusive, and sustainable nation. Our paper attempts to provide strategies for transforming higher education institutions to comply with vision of Viksit Bharat.

#### I. Introduction

Education stands as a cornerstone for the progress and development of Viksit Bharat, underlining its paramount significance within the nation. Here are several compelling reasons why education is indispensable in the context of Viksit Bharat:

- **a. Human Capital Development:** Education plays a vital role in nurturing individuals' skills, knowledge, and talents, thus fostering human capital development. A workforce that is well-educated is indispensable for propelling innovation, boosting productivity, and fuelling economic growth.
- **b. Empowerment**: Education empowers individuals by equipping them with the essential tools and capabilities to make informed decisions, engage actively in society, and make meaningful contributions to the nation's development.



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**c. Social Cohesion:** Education fosters social cohesion by instilling values of tolerance, inclusivity, and respect for diversity. It plays a crucial role in cultivating a cohesive society where individuals from diverse backgrounds can coexist harmoniously and collaborate towards shared objectives.

- **d. Economic Prosperity:** Education serves as a pivotal driver of economic prosperity by arming individuals with the skills and knowledge necessary to access superior job prospects, enhance productivity, and play a role in bolstering overall economic advancement.
- **e.** Technological Advancement: Education indeed serves as a cornerstone in fostering technological advancement and innovation. A well-educated population is better equipped to leverage technology in addressing complex challenges and driving progress across various sectors.
- **f. Sustainable Development:** Education plays a crucial role in promoting sustainable development by increasing awareness about environmental issues, nurturing responsible behaviour, and advocating for the adoption of sustainable practices across various domains.
- **g. Global Competitiveness:** Education enhances the nation's global competitiveness by equipping individuals with the skills and knowledge necessary to effectively compete in the global economy. It enables the country to adapt to evolving trends, capitalize on opportunities, and navigate challenges in the international arena.
- **h. Governance and Quality Assurance:** Enhancing governance mechanisms and quality assurance processes is essential to ensure transparency, accountability, and academic excellence in higher education institutions. This can be achieved by implementing robust performance metrics, accreditation standards, and regular assessments to uphold institutional integrity and standards.

#### **II. Implementing National Education Policy**

In Viksit Bharat, the National Education Policy (NEP) plays a pivotal role in shaping the educational landscape and advancing the nation's goals of progress and development. The



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National Education Policy (NEP) encompasses various provisions and reforms aimed at enhancing engineering education in India. Here are some key aspects of engineering education addressed in the NEP:

- **a. Holistic Education:** The NEP places significant emphasis on holistic education, emphasizing the development of learners' cognitive, social, emotional, and physical abilities alongside academic excellence. This comprehensive approach ensures that students are equipped with the diverse skills and competencies necessary to excel in an ever-evolving world.
- **b.** Universal Access and Equity: The NEP is committed to ensuring universal access to quality education for all individuals, irrespective of socio-economic status, gender, or geographic location. By addressing existing disparities in access and opportunity, the policy promotes inclusivity and equity throughout the education system.
- c. Multidisciplinary Learning: The NEP advocates for a multidisciplinary approach to learning, urging students to explore a wide range of subjects and disciplines beyond traditional academic boundaries. By embracing interdisciplinary studies, students develop creativity, critical thinking, and problem-solving skills essential for success in the modern workforce. This approach encourages students to make connections across different fields of knowledge, fostering a deeper understanding of complex issues and preparing them to tackle real-world challenges effectively.
- **d. Flexible Curriculum and Assessment:** The NEP champions a flexible curriculum and assessment framework that accommodates personalized learning pathways tailored to the unique needs, interests, and aspirations of individual students. It prioritizes competency-based assessment methods, which emphasize real-world application and skill mastery over rote memorization. By adopting this approach, the NEP aims to ensure that students acquire the knowledge, skills, and abilities necessary to succeed in their chosen fields and adapt to the demands of an ever-changing world.

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- e. Teacher Empowerment and Professional Development: Overall, faculty members are integral stakeholders in the implementation of the NEP's vision of transforming the education system to ensure quality, equity, and inclusivity for all learners. Their dedication, passion, and commitment are essential for realizing the goals of the policy and nurturing the next generation of empowered and capable citizens. It seeks to enhance teacher training programs, promote innovative teaching practices, and improve working conditions to attract and retain high-quality educators.
- **f. Technology Integration:** By embracing technology, educators can enhance the effectiveness of their teaching methods, facilitate active engagement and collaboration among students, and provide access to a wealth of educational content and resources. Moreover, technology enables the customization of learning experiences to accommodate individual learning styles, preferences, and paces, promoting greater student autonomy and ownership of learning.
- **g. Research and Innovation:** By promoting a robust research ecosystem, the NEP aims to stimulate the generation of new knowledge, insights, and best practices that can inform policy decisions, enhance teaching and learning outcomes, and drive systemic reforms. It encourages educational institutions to allocate resources and support faculty members and students in conducting high-quality research across various domains, including pedagogy, curriculum development, assessment methods, and educational technology.

Overall, the NEP serves as a guiding framework for transforming the education system in Viksit Bharat, laying the foundation for a knowledge-driven society that fosters excellence, equity, and inclusivity for all learners.

Furthermore, the NEP underscores the importance of collaboration between academia, industry, and other relevant stakeholders to promote innovation and knowledge exchange. By fostering partnerships with industry partners, research institutions, and government agencies, educational institutions can leverage external expertise, resources, and real-world insights to address complex challenges and explore new opportunities for educational advancement.



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Moreover, the NEP encourages the adoption and integration of cutting-edge technologies, such as artificial intelligence, machine learning, data analytics, and virtual reality, into educational practices and research endeavours. By harnessing the power of technology, researchers and educators can develop innovative solutions, enhance learning experiences, and expand access to quality education.

#### III. Campuses to be made more inclusive to realise Viksit Bharat @ 2047

To realize the vision of Viksit Bharat by 2047, prioritizing the creation of inclusive campuses that embrace diversity and provide equitable opportunities for all individuals is essential. This commitment ensures that every member of the campus community feels valued, respected, and supported, regardless of their background, identity, or circumstances. Inclusive campuses foster a sense of belonging and empowerment, which are vital for promoting academic success, personal growth, and well-being among students, faculty, and staff. By actively embracing diversity and equity, campuses can create vibrant and enriching environments that nurture the full potential of every individual and contribute to the realization of a more just and inclusive society. The outline on how campuses can be made more inclusive:

- **a. Diverse Representation:** Ensure diverse representation among students, faculty, and staff by implementing inclusive recruitment and retention practices. Encourage applications from underrepresented groups and provide support to ensure their success within the campus community.
- **b.** Accessible Infrastructure: Make campuses physically accessible to individuals with disabilities by implementing universal design principles. This includes providing ramps, elevators, accessible restrooms, and other facilities to accommodate individuals with mobility, vision, or hearing impairments.
- **c. Inclusive Policies:** Establish and enforce policies that prohibit discrimination, harassment, and bias-based incidents. Create grievance mechanisms and support systems for individuals who experience discrimination, ensuring that their concerns are addressed promptly and effectively.

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- **d.** Cultural Competency Training: Offer cultural competency training for students, faculty, and staff to promote understanding and respect for diverse perspectives and experiences. This training can help foster a more inclusive campus culture and improve intergroup relations.
- **e. Affordable Education:** Make education more affordable and accessible to students from economically disadvantaged backgrounds by offering scholarships, grants, and financial aid programs. Ensure that financial barriers do not prevent qualified students from pursuing higher education.
- **f. Support Services:** Provide comprehensive support services for students from marginalized or underrepresented groups, including counseling, mentorship, tutoring, and academic advising. These services can help students navigate academic and personal challenges and ensure their overall success.
- **g.** Inclusive Curriculum: Develop a curriculum that reflects diverse perspectives and experiences, including contributions from historically marginalized groups. Incorporate materials and examples that resonate with students from diverse backgrounds and promote critical thinking about social justice issues.
- **h. Diverse Programming:** Organize events, workshops, and cultural celebrations that celebrate diversity and promote inclusivity on campus. Encourage student organizations to host activities that highlight different cultures, identities, and experiences.
- **i.** Engagement with the Community: Foster partnerships with local communities and organizations to address broader social and economic inequalities. Collaborate on initiatives that promote access to education, employment opportunities, and healthcare services for marginalized populations.

By implementing these strategies, campuses can create a more inclusive and equitable environment that aligns with the vision of Viksit Bharat. This will not only benefit individuals within the campus community but also contribute to broader societal goals of social cohesion and economic development.



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#### IV. Strengthening Industry-Institute Interaction (III)

Strengthening Industry-Institute Interaction (III) in Viksit Bharat is crucial for fostering collaboration, enhancing learning experiences, and promoting innovation. The following strategies of strengthening Industry Institute Interaction (III) and fostering innovation in engineering colleges under Viksit Bharat is essential for producing industry-ready graduates and driving technological advancements:

- **a. Establishing Collaborative Partnerships:** Viksit Bharat can establish formal partnerships with industry stakeholders, including companies, organizations, and startups. These partnerships can involve joint research projects, technology transfer agreements, and knowledge exchange initiatives.
- **b. Industry-Driven Curriculum:** Collaborating with industry partners to develop and review curriculum ensures that educational programs are aligned with industry needs and emerging trends. Incorporating real-world case studies, industry projects, and internships into the curriculum enhances students' practical skills and industry readiness.
- **c. Guest Lectures and Workshops:** Inviting industry experts to deliver guest lectures, workshops, and seminars exposes students to current industry practices, challenges, and opportunities. This interaction provides valuable insights, networking opportunities, and mentorship to students.
- **d. Industry Mentorship Programs:** Establishing industry mentorship programs pairs students with industry professionals who provide guidance, career advice, and industry insights. Mentorship programs facilitate knowledge transfer, skill development, and career exploration for students.
- **e. Internship and Apprenticeship Programs:** Offering structured internship and apprenticeship programs allows students to gain hands-on experience, apply theoretical knowledge in real-world settings, and develop industry-specific skills. Industry partners benefit from fresh perspectives, talent pipeline development, and potential recruitment opportunities.

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**f. Industry-Linked Research Centres**: Establishing research centres in collaboration with industry partners facilitates collaborative research, technology development, and innovation. These centres address industry-relevant challenges, foster interdisciplinary research, and promote knowledge exchange between academia and industry.

- **g.** Entrepreneurship Ecosystem: Creating an entrepreneurship ecosystem within Viksit Bharat encourages students and faculty to pursue entrepreneurial ventures and technology startups. Providing access to incubation centres, funding opportunities, and mentorship networks supports innovation-driven entrepreneurship and industry engagement.
- **h.** Continuous Feedback Mechanisms: Establishing channels for continuous feedback from industry partners ensures that educational programs remain relevant, responsive, and adaptable to evolving industry needs. Feedback mechanisms enable Viksit Bharat to continuously improve III initiatives and strengthen industry-academia collaboration.
- **i. Incubation Centres:** Establish incubation centres within engineering colleges to support student startups and innovative projects. These centres provide infrastructure, mentorship, funding, and networking opportunities to budding entrepreneurs, facilitating the translation of ideas into viable businesses.
- **j. Industry Advisory Boards:** Form industry advisory boards comprising representatives from leading industries to provide strategic guidance and feedback to engineering colleges. These boards can advise on curriculum development, industry-relevant skills, and emerging technologies, ensuring that educational programs remain aligned with industry needs.
- **k.** Technology Transfer and Commercialization: Facilitate technology transfer and commercialization of research outcomes from engineering colleges to industries. Collaborate with technology transfer offices, startups, and industry partners to explore licensing agreements, joint ventures, and spin-off companies based on innovative research.

By implementing the above strategies, Viksit Bharat can enhance III initiatives, foster meaningful partnerships with industry stakeholders, and prepare students for successful careers in a dynamic and competitive workforce. By strengthening III initiatives and fostering



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innovation in engineering colleges under Viksit Bharat, we can bridge the gap between academia and industry, nurture a culture of innovation, and contribute to the nation's technological advancement and economic growth.

#### V. Enhancing Faculty development programs

Implementing effective Faculty Development Programs (FDPs) is crucial for advancing the goals of Viksit Bharat and enhancing the quality of higher education.

- **a. Pedagogical Training:** Offer workshops and seminars focusing on innovative teaching methodologies, active learning strategies, and assessment techniques to enhance teaching effectiveness. Provide training on instructional design, curriculum development, and student-cantered learning approaches.
- **b. Research Skills Enhancement:** Conduct sessions on research methodologies, grant writing, publication ethics, and research funding opportunities to support faculty members in conducting high-quality research. Encourage interdisciplinary collaborations and facilitate access to research resources and facilities.
- **c. Technology Integration:** Provide training on the use of educational technologies, learning management systems, and digital tools to enhance teaching and learning experiences. Offer workshops on online teaching, flipped classroom models, and blended learning approaches to adapt to changing educational landscapes.
- **d. Industry-Academia Collaboration:** Organize workshops, seminars, and industry visits to foster collaboration between faculty members and industry professionals. Encourage industry-academia partnerships, collaborative research projects, and knowledge exchange initiatives to enhance curriculum relevance and industry readiness among students.
- e. Leadership and Management Skills: Offer training programs on leadership development, academic administration, and faculty management to prepare faculty members for leadership roles within the institution. Provide mentoring and coaching opportunities to nurture leadership potential and enhance administrative skills.

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- **f. Professional Development:** Support faculty members in attending conferences, seminars, and workshops related to their discipline to stay updated on the latest developments in their field. Encourage participation in faculty exchange programs, sabbaticals, and professional certifications to broaden perspectives and enhance expertise.
- **g.** Teaching Effectiveness Evaluation: Implement mechanisms for evaluating teaching effectiveness through peer reviews, student feedback, and teaching portfolios. Provide constructive feedback and support for continuous improvement in teaching practices.
- **h.** Institutional Support: Allocate resources and institutional support for organizing FDPs, including funding for guest speakers, training materials, and faculty travel. Establish dedicated centers or units for faculty development to coordinate FDPs and provide ongoing support to faculty members.

By implementing these strategies, Viksit Bharat can create a robust system of Faculty Development Programs that empower faculty members to excel in their roles, enhance student learning outcomes, and contribute to the overall advancement of higher education in India.By implementing comprehensive FDPs, Viksit Bharat can empower faculty members to excel in their roles, foster a culture of continuous learning and innovation, and ultimately enhance the quality of education and research in engineering colleges and institutions.

#### VI. Improving students' progression

Improving student progression is essential for achieving the goals of Viksit Bharat. Here are some strategies to enhance student progression:

- **a. Early Intervention Programs:** Implement early intervention programs to identify students who may be at risk of falling behind academically or dropping out. Provide targeted support, such as tutoring, mentoring, or academic counselling, to help these students overcome challenges and stay on track.
- **b. Personalized Learning Pathways:** Offer personalized learning pathways that cater to the individual needs, interests, and learning styles of students. Allow students to choose from a



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variety of courses, majors, and extracurricular activities to tailor their educational experience to their goals and aspirations.

- **c.** Academic Advising and Support Services: Provide comprehensive academic advising and support services to help students navigate their academic journey. Offer guidance on course selection, degree planning, and career exploration, as well as referrals to support resources such as tutoring centres, writing labs, and counselling services.
- **d. Enhanced Student Engagement:** Promote active learning and student engagement both inside and outside the classroom. Encourage participation in hands-on projects, group discussions, research opportunities, internships, and community service activities to deepen learning and foster personal and professional growth.
- **e. Retention Initiatives:** Develop retention initiatives focused on improving student persistence and graduation rates. These initiatives may include orientation programs for new students, transition courses for first-year students, and targeted support for underrepresented or at-risk student populations.
- **f. Flexible Scheduling Options:** Offer flexible scheduling options, such as evening classes, online courses, and accelerated degree programs, to accommodate the diverse needs of students, including working professionals, adult learners, and students with family responsibilities.
- **g. Enhanced Student Support Systems:** Strengthen support systems for students by investing in resources such as academic advising centres, tutoring services, career development offices, and mental health counselling services. Ensure that these services are easily accessible and responsive to the needs of students.
- **h. Data-Informed Decision Making:** Use data analytics and predictive modeling to identify patterns and trends in student progression and academic performance. Use this information to develop targeted interventions and strategies for improving student outcomes.

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**i.** Collaboration with Stakeholders: Foster collaboration with stakeholders, including faculty, staff, administrators, alumni, employers, and community partners, to support student progression and success. Engage these stakeholders in initiatives such as mentorship programs, internship opportunities, and career development initiatives.

**j. Continuous Improvement and Evaluation:** Regularly assess the effectiveness of student progression initiatives through data analysis, surveys, focus groups, and other evaluation methods. Use feedback from students and stakeholders to refine and improve programs and services over time.

By implementing these strategies, Viksit Bharat can create a supportive and conducive environment that empowers students to succeed academically, professionally, and personally, ensuring that they are well-prepared to contribute to the nation's progress and development. This can also can enhance student placements, increase industry engagement, and ensure that graduates are well-equipped to succeed in the competitive job market.

#### VII. Creating a learning environment that nurtures creativity, fosters innovation

In Viksit Bharat, student projects in engineering are pivotal for fostering creativity, problemsolving skills, and hands-on learning experiences. Here's how Viksit Bharat can facilitate effective student projects in engineering:

a. Project-Based Learning Curriculum: Integrate project-based learning into the engineering curriculum, aligning projects with coursework and real-world challenges. Encourage interdisciplinary projects spanning multiple engineering disciplines to promote collaboration and innovation.

b. Faculty Mentorship: Assign faculty mentors to guide and supervise student projects. These mentors offer technical expertise, guidance, and support throughout the project lifecycle, helping students overcome challenges and achieve objectives.

c. Industry Collaboration: Foster collaboration with industry partners to provide students access to industry-relevant projects, mentorship from experts, and opportunities for



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internships and industry-sponsored projects. This enhances the practical relevance of student projects and prepares students for future careers.

- d. Promoting Innovation and Entrepreneurship: Encourage students to pursue innovative projects addressing societal needs, technological advancements, and entrepreneurial opportunities. Support entrepreneurship initiatives, like startup incubators, funding opportunities, and mentorship programs, to help students translate ideas into viable ventures.
- e. Research-Informed Projects: Encourage students to undertake research-informed projects contributing to knowledge advancement in their fields. Provide access to research resources, laboratories, and funding to support student-led research projects.
- f. Multidisciplinary Collaboration: Promote multidisciplinary projects integrating concepts from various engineering disciplines and other fields like social sciences and humanities. Such projects encourage cross-disciplinary collaboration, creativity, and holistic problem-solving.
- g. Hands-on Learning: Emphasize hands-on learning experiences in student projects through design, prototyping, testing, and implementation phases. Provide access to workshops, fabrication labs, and maker spaces equipped with tools and equipment for building and testing prototypes.
- h. Showcasing and Recognition: Organize events, exhibitions, and competitions to showcase student projects and recognize outstanding achievements. Encourage students to present projects at conferences, symposiums, and industry forums for visibility and feedback from experts.

Implementing these strategies will create a vibrant ecosystem for student projects in engineering, empowering students to apply theoretical knowledge to real-world problems, foster innovative thinking, and prepare for successful engineering careers.



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#### VIII. Conclusion

In conclusion, the vision of Viksit Bharat envisions a future where educational institutions play a central role in nurturing the talents, skills, and ambitions of India's youth. By fostering creativity, innovation, and hands-on learning experiences, these institutions empower students to become the next generation of leaders, entrepreneurs, and problem solvers. Through effective faculty development programs, industry collaborations, and a commitment to research and entrepreneurship, Viksit Bharat aims to create a vibrant ecosystem for education and innovation, driving economic growth, social progress, and global competitiveness. As educational institutions embrace this vision and strive to realize its goals, they will not only transform the landscape of higher education but also pave the way for a brighter and more prosperous future for all citizens of India.



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