Integrating the Sustainable Development Goals (SDGs) in the Curriculum and Strengthening Teacher Training Programs to Align with NEP 2020

L. Radha
Thiagarajar College of Engineering, India
https://orcid.org/0000-0001-6959-5936

J. Arumugam
PSG College of Technology, India
https://orcid.org/0000-0002-3349-8058

Abstract
This article discusses the benefits of aligning the National Education Policy (NEP) 2020 with the Sustainable Development Goals (SDGs) to promote quality education and sustainable development in India’s higher education institutions. The NEP 2020 and the SDGs share common objectives related to promoting access to quality education, improving learning outcomes, and fostering innovation and research. By integrating the SDGs into their curricula and operations, higher education institutions in India can help their students develop the knowledge, skills, and attitudes required to contribute to sustainable development in India and globally. The article also provides examples of higher education institutions in India that have adopted the SDGs and incorporated them into their curricula and operations. The alignment of NEP 2020 with the SDGs is expected to further encourage the integration of the SDGs into higher education in India.

Keywords: Sustainable Development Goals, National Education Policy 2020, Higher Education, Teacher Training, Curriculum, India

Introduction
The Sustainable Development Goals (SDGs) are a set of global targets aimed at promoting sustainable development and eradicating poverty, hunger, and inequality by 2030. Education is a key component of the SDGs, and achieving the SDG goals requires the provision of quality education for all. In India, the National Education Policy (NEP) 2020 aims to transform the education system by promoting access to quality education, improving learning outcomes, and fostering innovation and research. This article discusses the benefits of aligning the NEP 2020 with the SDGs to promote quality education and sustainable development in India’s higher education institutions. By integrating the SDGs into their curricula and operations, higher education institutions in India can contribute to achieving the SDGs and promoting sustainable development in India and globally. The article also highlights examples of higher education institutions in India that have already adopted the SDGs and incorporated them into their curricula and operations.

Sustainable Development Goals (SDG)
The Sustainable Development Goals (SDGs) are a group of 17 worldwide objectives that will be accomplished by 2030 and were endorsed by the UN General Assembly in 2015. The Sustainable Development Goals (SDGs) address a variety of social, economic, and environmental issues, such as
poverty, hunger, health, education, gender equality, clean water and sanitation, affordable and clean energy, decent work and economic growth, innovation and infrastructure, reduced inequalities, sustainable cities and communities, responsible consumption and production, climate action, life below the waterline, life on land, peace, justice, and strong institutions, as well as partnerships for the goals. By 2030, the SDGs want to have eradicated poverty, preserved the environment, and made sure that everyone lived in peace and prosperity. Governments, civil society, the commercial sector, and individuals must work together to achieve the SDGs. Die SDGs

National Education Policy 2020 (NEP)

The National Education Policy (NEP) 2020 is a policy document released by the Government of India in July 2020. The policy aims to transform the Indian education system to meet the needs of the 21st century. Some of the key highlights of NEP 2020 include the introduction of a 5+3+3+4 structure of school education, a new curriculum framework that emphasizes critical thinking and problem-solving, a focus on multidisciplinary and vocational education, an emphasis on teacher training and development, the promotion of online and digital education, and increased funding for education. NEP 2020 also seeks to promote inclusive and equitable education, reduce the gender gap, and provide universal access to quality education. The implementation of NEP 2020 will require collaboration between the central and state governments, education stakeholders, and civil society.

Aligning SDG and NEP

The Sustainable Development Goals (SDGs) and the National Education Policy 2020 (NEP 2020) are both important frameworks that aim to improve the lives of people and the planet. By aligning the SDGs and NEP 2020, education can be transformed to become more relevant, equitable, and sustainable, preparing learners to be responsible global citizens who can contribute to a better future for all. The SDGs are a set of 17 goals adopted by the United Nations in 2015, while the NEP 2020 is a policy framework introduced by the Indian government to reform the education system in the country. Aligning the SDGs and NEP 2020 can help to ensure that education is more relevant, equitable, and sustainable.

Emphasizing the Importance of Quality Education

SDG 4 aims to ensure inclusive and equitable quality education and promote lifelong learning opportunities for all. The NEP 2020 also prioritizes the need for high-quality education that is inclusive, multidisciplinary, and oriented towards holistic development. Aligning these two frameworks can help to ensure that education is of high quality and accessible to all, regardless of their socio-economic background.

Promoting Sustainability Education

SDG 12 focuses on promoting sustainable consumption and production patterns, while SDG 13 aims to take urgent action to combat climate change and its impacts. The NEP 2020 also emphasizes the importance of sustainability education, including environmental awareness and ecological responsibility. Aligning these two frameworks can help to ensure that education promotes sustainable practices and prepares learners to be responsible global citizens.

Encouraging Innovation and Entrepreneurship

SDG 9 aims to promote innovation and build resilient infrastructure, while the NEP 2020 emphasizes the need for developing an entrepreneurial mindset among learners. Aligning these two frameworks can help to foster innovation and entrepreneurship in education, encouraging learners to develop skills that are relevant to the changing needs of the world.

Promoting Gender Equality and Social Inclusion

SDG 5 aims to achieve gender equality and empower all women and girls, while the NEP 2020 emphasizes the need for gender-sensitive and inclusive education. Aligning these two frameworks can help to ensure that education is gender-sensitive and promotes social inclusion, recognizing the diversity of learners and their needs.
Common Objectives of NEP and SDGs

The NEP 2020 and the SDGs have common objectives of promoting inclusive and equitable quality education, enhancing the quality of education, promoting lifelong learning, bridging the gender gap, and investing in vocational education. By working towards these common objectives, India can ensure that every child has access to quality education and is equipped with the skills they need to succeed in life.

- To ensure that every child has access to quality education regardless of their background or location. They emphasize the need to reduce disparities in education and promote inclusion.
- To improve the quality of education being provided. NEP 2020 seeks to make education more holistic, multidisciplinary, and flexible, while SDGs focus on ensuring that learners acquire the knowledge and skills needed to succeed in the 21st century.
- To emphasize the need for lifelong learning opportunities for all. NEP 2020 envisions a system that promotes continuous learning, while SDGs aim to provide learners with the skills they need to succeed in life.
- To recognize the importance of bridging the gender gap in education. They aim to ensure that girls have equal access to education and are not discriminated against.
- To invest in vocational education and training to provide learners with the skills they need to succeed in the workforce.

Quality Education Policies to Align SDG and NEP

There are two quality education policies that can be implemented to align the National Education Policy (NEP) 2020 with the Sustainable Development Goals (SDGs) to achieve quality education in India. By implementing these policies, India can align the NEP 2020 with the SDGs and achieve quality education for all, thereby contributing to the achievement of the SDGs.

Integration of SDGs in the Curriculum

One way to align the NEP 2020 with the SDGs is to integrate the SDGs in the curriculum. This can be done by revising the curriculum framework to include the key themes and objectives of the SDGs, such as sustainable development, gender equality, clean water and sanitation, and climate action. The curriculum can be designed in a way that promotes critical thinking, problem-solving, and values-based learning to equip students with the skills and knowledge needed to achieve the SDGs. This will help in creating awareness and engaging students in the implementation of the SDGs.

Strengthening Teacher Training and Development

Another way to align the NEP 2020 with the SDGs is to strengthen teacher training and development programs. The teacher training and development programs can be revised to include the key themes and objectives of the SDGs, such as sustainable development, inclusive education, and gender equality. Teachers can be trained to use innovative and inclusive teaching methods that promote the values of the SDGs, such as collaboration, empathy, and environmental sustainability. This will help in building a skilled and motivated teacher workforce that can effectively implement the NEP 2020 and promote the SDGs in their classrooms.

Impact of SDG and NEP on Education

Aligning the Sustainable Development Goals (SDGs) and the National Education Policy 2020 (NEP 2020) can have several positive impacts on education and society as a whole and this can have a transformative impact on education and society, preparing learners to be responsible global citizens who can contribute to a better future for all. Aligning SDGs and NEP can help to ensure that education is of high quality, relevant, and inclusive. This can lead to better learning outcomes and prepare learners to meet the challenges of the 21st century and it can help to promote sustainability education and prepare learners to be responsible global citizens who are aware of environmental issues and their impact on society. Aligning SDGs and NEP can help to foster innovation and entrepreneurship in education, encouraging learners to develop skills that are relevant to the changing needs of the world and it can help to promote gender equality and social inclusion in education, recognizing the diversity of learners and their needs. It also helps to ensure that education is aligned with global development goals.
promoting sustainable development and contributing to the achievement of the SDGs.

**Benefits of Aligning SDG and NEP**

Aligning NEP 2020 with the SDGs can result in an improved quality of education, promote inclusive education, enhance India’s global recognition, contribute to sustainable development, and produce a skilled workforce.

**Improved Quality of Education**

The alignment of NEP 2020 with the SDGs can result in an improved quality of education by integrating the principles of sustainability, equity, and inclusion in the curriculum. This can equip students with the knowledge and skills required to meet the challenges of the 21st century.

**Inclusive Education**

The alignment of NEP 2020 with the SDGs can promote inclusive education by ensuring that every child, irrespective of their socio-economic background, has access to quality education. This can reduce the education gap between privileged and underprivileged students and promote social cohesion.

**Global Recognition**

The alignment of NEP 2020 with the SDGs can enhance India’s global recognition as a responsible member of the international community committed to achieving the SDGs. This can attract foreign investment in the education sector and strengthen India’s position as a global leader in education.

**Sustainable Development**

The alignment of NEP 2020 with the SDGs can contribute to sustainable development by promoting the principles of environmental sustainability and social responsibility in the education sector. This can prepare students to become responsible citizens who can contribute to sustainable development.

**Skilled Workforce**

The alignment of NEP 2020 with the SDGs can produce a skilled workforce that is equipped with the skills and knowledge required to meet the demands of the 21st-century job market. This can enhance India’s competitiveness in the global market and contribute to economic growth and development.

**Higher Education Institutions Adopting SDG and NEP**

Higher education institutions in India are increasingly adopting the Sustainable Development Goals (SDGs) and the National Education Policy 2020 (NEP 2020) to guide their teaching, research, and outreach activities.

**Incorporating Sustainability Education**

Several higher education institutions in India are incorporating sustainability education in their curriculum, research, and outreach activities. For example, Indian Institute of Technology (IIT) Delhi has launched a Center for Excellence in Climate Studies to promote research, education, and outreach related to climate change and its impact on society.

**Fostering Innovation and Entrepreneurship**

Many higher education institutions in India are promoting innovation and entrepreneurship among their students and faculty. For example, Indian Institute of Management (IIM) Ahmedabad has launched an Innovation and Entrepreneurship Center to promote innovation and entrepreneurship among its students and faculty.

**Emphasizing Interdisciplinary Education**

The NEP 2020 emphasizes the need for interdisciplinary education, and several higher education institutions in India are adopting this approach. For example, Tata Institute of Social Sciences (TISS) Mumbai offers interdisciplinary programs in areas such as social work, public policy, and development.

**Promoting Gender Equality and Social Inclusion**

The NEP 2020 emphasizes the need for gender-sensitive and inclusive education, and several higher education institutions in India are adopting this approach. For example, Indian Institute of Technology (IIT) Kharagpur has launched a Center for Women in Science and Technology to promote gender equality in science and technology education and research.
Several institutions in Tamil Nadu, India, have implemented the Sustainable Development Goals (SDGs) and the National Education Policy 2020 (NEP 2020) to guide their teaching, research, and outreach activities. Here are some examples of how institutions in Tamil Nadu are implementing SDG and NEP.

**Bharathidasan University**

Bharathidasan University in Tiruchirappalli, Tamil Nadu, has adopted the SDGs and is implementing several initiatives to promote sustainable development. For example, the university has launched a green campus initiative to promote sustainable practices on campus, such as rainwater harvesting, waste reduction, and energy conservation.

**Indian Institute of Technology (IIT) Madras**

IIT Madras in Chennai, Tamil Nadu, has incorporated the SDGs into its curriculum, research, and outreach activities. For example, the institute has launched a Center for Technology and Policy to promote research and education related to sustainable development and public policy.

**Anna University**

Anna University in Chennai, Tamil Nadu, has adopted the NEP 2020 and is implementing several initiatives to promote interdisciplinary education and research. For example, the university has launched a Center for Data Science and Artificial Intelligence to promote interdisciplinary research and education in these areas.

**Tamil Nadu Agricultural University**

Tamil Nadu Agricultural University in Coimbatore, Tamil Nadu, has adopted the NEP 2020 and is implementing several initiatives to promote sustainable agriculture and rural development. For example, the university has launched a Center for Agri-Innovation and Rural Entrepreneurship to promote innovation and entrepreneurship in agriculture and rural development.

**Conclusion**

Aligning the National Education Policy (NEP) 2020 with the Sustainable Development Goals (SDGs) can greatly benefit India’s higher education institutions by promoting quality education and sustainable development. The NEP 2020 and the SDGs share common objectives related to promoting access to quality education, improving learning outcomes, and fostering innovation and research. By integrating the SDGs into their curricula and operations, higher education institutions in India can help their students develop the knowledge, skills, and attitudes required to contribute to sustainable development in India and globally. Many higher education institutions in India have already adopted the SDGs and incorporated them into their curricula and operations. However, there is still a need for further efforts to align higher education with the SDGs, and the NEP 2020 provides a useful framework for doing so. By aligning NEP 2020 with the SDGs and adopting a comprehensive approach that includes integrating the SDGs into the curriculum and strengthening teacher training programs, India’s higher education institutions can make significant contributions to achieving the SDGs and promoting sustainable development in India and beyond. Moreover, strengthening teacher training programs and incorporating the SDGs into the curriculum can help ensure that the next generation of teachers and students are equipped with the knowledge and skills required to achieve the SDGs. This comprehensive approach can enable higher education institutions to play a critical role in achieving the SDGs in India and contribute to the country’s sustainable development.

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Author Details
L. Radha, Thiagarajar College of Engineering, India, Email ID: rchandar79@gmail.com

J. Arumugam, PSG College of Technology, India, Email ID: jacs1986tvl@gmail.com