

The 14th Five-Year Plan for the Development and Construction of Hunan Institute of Engineering

The 14th Five-Year Plan period marks the first five years following China's achievement of building a moderately prosperous society in all respects and fulfilling the first centenary goal. It also serves as the beginning phase of a new journey toward fully building a modern socialist country and advancing toward the second centenary goal.

Guided by Xi Jinping Thought on Socialism with Chinese Characteristics for a New Era, and fully implementing the guiding principles of the Fifth Plenary Session of the 19th CPC Central Committee as well as General Secretary Xi Jinping's important remarks during his inspection of Hunan, the university has formulated this plan based on a comprehensive analysis of the major achievements and experiences during the 13th Five-Year Plan period, as well as the key problems and shortcomings that remain. In light of the new trends and requirements in the reform and development of higher education at both the national and provincial levels, and in order to ensure a strong start for the university's high-quality development over the next five years — culminating in becoming a master's degree awarding institution and building a distinctive and high-level engineering application-oriented university — this plan has been developed in accordance with the university's actual conditions.

I. Construction and Development During the 13th Five-Year Plan Period

(1) Major Achievements and Key Experiences

During the 13th Five-Year Plan period, the university was selected as

an implementing institution of the Ministry of Education's Emerging Engineering Education Research and Practice Project. It was designated as a construction unit for the master's degree awarding program in Hunan Province, and recognized as a high-level applied characteristic university under Hunan's "Double First-Class" initiative. Additionally, the university was named a "Safe Campus" and a "Civilized Campus" in Hunan Province, and in 2020, was approved as one of the first batch of undergraduate admission institutions in the province.

1. Comprehensive Strengthening of Party Leadership and Significant Achievements in Party Building and Ideological-Political Work

The Party Committee of the university has thoroughly implemented the general requirements for Party building in the new era, upheld the system of presidential accountability under the leadership of the Party Committee and the principle of democratic centralism, earnestly fulfilled its primary responsibility for governing the Party and running the university, and consistently prioritized ideological and political work across all aspects of institutional development.

During the 13th Five-Year Plan period, the organizational structure of secondary-level Party organizations and leadership teams was fully established. All 26 teaching faculty Party branch secretaries were appointed under the "dual-leader" system, and 14 full-time Party affairs staff members were assigned to strengthen ideological and political work. The university established 43 standardized Party branch bases and set up 4 temporary student dormitory Party branches.

All grassroots Party branches successfully passed evaluations under the "Five-Standardization" initiative. One provincial-level advanced grassroots Party organization and six outstanding provincial-level Communist Party members were recognized. Additionally, two student

branches were awarded the title of “Vigorous Youth League Branch” at the national level; five students were honored as “Outstanding Self-Motivated College Students”; one was named “Most Beautiful Communist Youth League Member” at the provincial level, and three others received provincial-level honors as “Outstanding Youth League Members.” Furthermore, 15 provincial-level projects on ideological and political education for college students were approved, and the university was recognized as an Advanced Unit in Mental Health Education in Hunan Province for five consecutive years.

2. Remarkable Progress in Discipline Construction and Significant Enhancement of Scientific and Technological Innovation Capacity

The university has continuously improved its three-tier discipline development system at the provincial, university, and school levels. It has been designated as a high-level applied characteristic institution under the “Double First-Class” construction initiative of Hunan Province. Eight first-level disciplines have been selected as applied characteristic disciplines at the provincial level. In 2017, the university was approved as a project construction unit for the conferral of master’s degrees in Hunan Province. In 2018, it was among the first batch of institutions to pass the evaluation and acceptance of the “Program for Cultivating Talents to Serve the Special Needs of the Country” by the Academic Degrees Committee of the State Council. Significant progress has been made in the preparation for establishing master’s degree programs. The current student–faculty ratio stands at 16.91:1; the proportion of faculty members with doctoral degrees has reached 28%; average research funding per faculty member amounts to 169,000 yuan, and average educational funding per student is 30,600 yuan — all of which surpass the minimum requirements for applying to offer master’s programs, laying a solid

foundation for future application as a degree-awarding institution.

During the 13th Five-Year Plan period, the university's research capabilities were significantly strengthened. A total of 33 national-level research projects, 305 provincial and ministerial-level projects, and 776 horizontal (industry-funded) projects were approved, with total research funding reaching 490 million yuan. More than 570 high-level research papers and 35 academic monographs were published, and 569 patents of various types were granted. The university currently hosts 24 provincial-level research platforms, including 19 newly established ones. It has received 16 provincial and ministerial-level science and technology achievement awards, including second prizes in both Natural Science and Scientific and Technological Progress categories. The university's "2011 Collaborative Innovation Center for Wind Power Equipment and Power Conversion" in Hunan Province successfully passed evaluation and acceptance.

3. Educational and Teaching Reform Deepened; Internal Development Continuously Strengthened

The university has consistently adhered to a student-centered approach, continuously reformed its talent cultivation philosophy, and actively promoted educational and teaching reforms. In 2018, it successfully passed the Ministry of Education's evaluation of undergraduate teaching work.

(1) Steady Progress in the "Excellence Engineer Education and Training Program"

The university made solid progress in implementing the Ministry of Education's Excellence Engineer Education and Training Program. It was twice elected as a vice-chair institution of the National Alliance of Local Universities for Excellence in Industry-University Cooperative Engineering Education, organized by the Department of Higher

Education of the Ministry of Education. Six engineering programs under the “Excellence Program” submitted applications for professional accreditation in engineering education, and three of them successfully received accreditation.

(2) Active Promotion of New Engineering Discipline Development

The university has actively participated in the construction of emerging engineering programs. It was elected as a deputy director institution of the Hunan Provincial New Engineering Construction Collaboration Group for Ordinary Universities. Three emerging programs — Robotics Engineering, Artificial Intelligence, and Big Data Science and Technology — have been successfully approved. In addition, two national-level and three provincial-level Emerging Engineering Research and Practice Projects were also approved by the Ministry of Education and Hunan Province, respectively.

(3) Steady Progress in the “Double Ten-Thousand Plan”

The implementation of the Double Ten-Thousand Plan (i.e., building 10,000 national and 10,000 provincial first-class undergraduate programs) has progressed steadily. During the 13th Five-Year Plan period, two programs of the university were selected as national first-class undergraduate programs, and 22 were selected at the provincial level. In addition, one national first-class course and 32 provincial first-class courses were approved.

(4) Notable Achievements in Educational and Teaching Reform

The university achieved new milestones in educational reform. It was approved for one provincial-level pilot project on systemic educational reform, three pilot projects for discipline reform in regular colleges and universities during the 13th Five-Year Plan period, 41 provincial-level educational planning projects, and 124 provincial-level

teaching reform projects. The university also received one first prize, five second prizes, and four third prizes in the Hunan Provincial Teaching Achievement Awards for Higher Education, as well as one first prize in the Teaching Achievement Awards for Higher Education in Textile Disciplines by the China National Textile and Apparel Council.

(5) Encouraging Progress in Innovation and Entrepreneurship Education

A total of 68 innovation and entrepreneurship education centers and platforms were established during the 13th Five-Year Plan period. The university was approved for one national-level “Xiaoping Science and Technology Innovation Team” for College Students, 102 national-level Innovation and Entrepreneurship Training Program projects, and 287 provincial-level projects.

Moreover, 102 projects were successfully incubated in student innovation and entrepreneurship bases, and seven projects in industry-university collaborative education related to innovation and entrepreneurship were approved by the Ministry of Education. Students actively participated in discipline-based competitions, winning 281 national awards and 956 provincial awards, including two first prizes in the National Electronic Design Competition, two first prizes in the National College Students’ Mechanical Innovation Design Competition, and one first prize in the National College Students’ Chemical Engineering Design Competition.

4. Faculty Strength Enhanced and Notable Progress Made in Teacher Ethics and Conduct Development

A total of 148 new high-level and highly educated talents and 40 faculty members with senior professional titles were added. The university currently has 1,083 full-time faculty members, 37% of whom hold senior professional titles. There are 145 doctoral and master’s

supervisors.

The university has actively promoted the construction of teacher ethics and professional conduct by continuously organizing a series of initiatives, including the selection of outstanding teachers, recognition of advanced individuals in the “Three All-Round Educations” (*San Quan Yu Ren*), themed teaching competitions, and the “Thirty-Year Teaching Dedication Award.” These efforts have contributed to cultivating a professional culture in which teachers are loyal to the cause of education, committed to their work, and dedicated to student development.

Over the past five years, 35 individuals have been recognized with provincial-level or higher talent titles, such as “Distinguished Teacher.” More than 300 mid-career and young backbone faculty members have been selected for overseas study, degree advancement, or enterprise-based engineering experience. Additionally, over 200 students have been sent abroad for study exchanges. Five Overseas Master Teachers from Hunan Province have been introduced, and the Hunan Province Overseas Talent Base (Hunan Institute of Engineering) has been successfully established. Since 2019, the university has ranked among the top in the national teaching development index for newly established undergraduate institutions.

5. Institutional and Mechanism Reform Advanced; Governance Capacity Continuously Improved

The university has established a leading group for comprehensively deepening reform and a dedicated Reform and Development Office. Ten major reform initiatives have been promoted in a coordinated and systematic manner, covering Party building and ideological-political work, internal governance and management systems, discipline development and management mechanisms, performance-based salary systems, applied talent cultivation, science and technology innovation

mechanisms, asset management, logistics services, management by objectives (MBO), and the operation mechanism of the formerly affiliated independent college. These initiatives have facilitated the downward shift of administrative responsibilities and improved the autonomy and proactiveness of schools and departments.

A Supervision Office has been established to strengthen oversight and ensure the effective implementation of major decisions. The university has revised and improved its Charter and the Charter of the Academic Committee, and has fully implemented the modern university governance system featuring “Party Committee leadership, presidential accountability, faculty participation in governance, and democratic management.” Taking refined management as a key opportunity, the university has established and improved a series of institutional rules and regulations, clarified the duties and responsibilities of its departments, and continuously promoted the modernization of its governance system and capacity.

6. Steady Expansion of Institutional Scale and Continuous Improvement of School Conditions

The university currently has 22,423 full-time undergraduate students (including those at the formerly affiliated independent college), representing a 9% increase from 2015. The number of full-time postgraduate students has reached 235, a 124% increase from 2015. The School of International Education has enrolled 856 students, up 66% from 2015, and for the first time admitted 25 language students and 3 degree-seeking students from eight countries along the Belt and Road Initiative.

In 2020, the university’s total financial revenue (including the independent college) reached RMB 502 million, up 27.09% from RMB 395 million in 2015. The total value of teaching and research equipment

reached RMB 219 million, an increase of 17% from 2015. Meanwhile, adult and continuing education programs have developed steadily.

During the 13th Five-Year Plan period, several major infrastructure projects were completed and put into use, including the Electrical Engineering Teaching Laboratory Building, the Mechanical Engineering Teaching Laboratory Building, and two new student dormitories. Construction is currently underway on the Chemical Engineering Building and East Lake Student Apartment Buildings No. 10 and 11. The total campus floor area has increased by 38,600 square meters.

An investment of RMB 22.3 million was allocated to promote smart campus development. A smart monitoring platform for water and electricity usage and an automated maintenance reporting system were established. Campus lighting and landscaping projects were upgraded, and campus property and logistics services were gradually socialized and professionalized. The university has preliminarily developed into an open, garden-style, and ecologically harmonious campus integrated with the Xiangtan Riverside Scenic Belt, Muyu Lake Park, and Baota Park.

7. Remarkable Achievements in Targeted Poverty Alleviation and Active Contributions to Epidemic Prevention and Control

Over the past five years, the university has dispatched two groups of village-based poverty alleviation teams and invested more than RMB 4 million to assist Xincun Village in Huangzhou Town, Xinhuang County, Huaihua City in overcoming poverty. These efforts passed both provincial and national evaluations for poverty alleviation and elimination and were consistently rated as “Excellent” in annual assessments. More than RMB 140 million in scholarships, grants, and student loans were distributed to support students from financially disadvantaged backgrounds, ensuring that no student dropped out due to economic hardship.

Following the outbreak of the COVID-19 pandemic in 2020, the

university promptly established a three-tiered prevention and control system at the university, college, and class levels. Faculty, staff, and students collectively donated over RMB 470,000 in cash and materials to support frontline pandemic response efforts. The university also provided RMB 219,000 in special assistance to students from Hubei Province facing difficulties. In addition, university professors and experts were dispatched to assist enterprises in the production of epidemic prevention supplies. Collaborative efforts led to the joint development of pandemic prevention technologies, including micro disinfection devices and epidemic prevention robots.

8. Deep Integration of Industry, Academia, Research, and Application Continuously Enhances Social Service Capacity

The university has actively aligned itself with the development of the Changsha-Zhuzhou-Xiangtan National Independent Innovation Demonstration Zone and the Three Valleys Project. It has signed comprehensive cooperation agreements with local governments at the municipal, county, and district levels, including Xiangtan and Zhuzhou.

To promote industry-university-research collaboration, the university has established cooperative relationships with 546 enterprises, including Xiangtan Iron and Steel Group, and has built joint research and training bases with over 100 enterprises, such as Hunan Geely Auto Parts Co., Ltd. In partnership with dozens of large and medium-sized enterprises—such as Xiangtan Electric Machinery Group — the university has established 25 national and provincial-level practical education and teaching practice platforms, 3 modern industrial colleges, 10 engineering technology research centers, 13 joint laboratories, 16 provincial experimental and practical teaching centers, and 22 shared practical innovation platforms.

In addition, the university has been approved for one Provincial Virtual Simulation Experimental Teaching Center, one Provincial Virtual

Simulation Teaching Project, and 61 projects under the Ministry of Education's Industry-University Cooperation and Collaborative Education Program.

A total of 1,007 new horizontal research projects were launched, with funding reaching RMB 224 million — representing a 9.1-fold increase compared to 2015. The university also added 50 new projects under the Hunan-Xiangtan Joint Fund and appointed 44 new science and technology commissioners in Xiangtan City.

In 2020, the university received RMB 5 million in R&D subsidies from Hunan Province, ranking alongside Central South University and Hunan University as one of the few institutions to receive the full amount, generating a strong and positive social response.

(II) Main Problems and Deficiencies

1. Educational Philosophy and Concepts Need Further Updating

In the course of promoting connotative and distinctive development, the university's educational philosophy requires further modernization. Greater awareness of responsibility, innovation, and competition must be cultivated, and the understanding and implementation of its application-oriented positioning must be further deepened.

2. Core Competitiveness Requires Further Enhancement

Certain disciplines and programs have not effectively aligned themselves with the evolving needs of economic and social development. The levels of scientific and technological innovation, as well as the university's capacity to serve local development, remain insufficient. The overall quality of the faculty team needs improvement, with a shortage of academic leaders and high-performing research teams. The university still lacks a strong presence in national-level research platforms, projects, and high-impact academic and teaching achievements.

3. Party Building Work Needs to Be Strengthened

Some aspects of Party building remain misaligned with the requirements of the new era and emerging tasks. The relevance and effectiveness of ideological and political education for students need to be improved, and the scientific and systematic nature of Party building should be further enhanced.

(III) Opportunities and Challenges During the 14th Five-Year Plan Period

1. New Missions in the New Era

Socialism with Chinese characteristics has entered a new era, marking a historic turning point in the country's development. The world is undergoing profound changes unseen in a century, accompanied by a new wave of scientific and technological revolution and industrial transformation. The Party and the State have attached great strategic importance to the development of higher education. The 19th National Congress of the Communist Party of China proposed a series of national development strategies, including rejuvenating the country through science and education, strengthening the country with talent, and driving development through innovation.

The CPC Central Committee and the State Council released the Overall Plan for Deepening the Reform of Education Evaluation in the New Era (hereinafter referred to as the “Overall Plan”), which aims to correct unscientific evaluation practices, resolutely address persistent problems such as the Maladies of the “Five-Only” Evaluation System, and ensure the delivery of education that meets the expectations of the people.

The Fifth Plenary Session of the 19th CPC Central Committee put forward the national 14th Five-Year Plan and long-range objectives through 2035, ushering in a new phase in building a modern socialist country in all respects. These strategic deployments have endowed higher

education with new missions, calling for universities to better serve national strategies, foster high-level talent, and enhance their innovation capacity in this new historical stage.

2. New Opportunities in the New Era

The Fifth Plenary Session of the 19th CPC Central Committee emphasized the need to build a high-quality education system, providing clear direction for accelerating the connotative and high-quality development of universities. The comprehensive advancement of New Engineering and New Liberal Arts initiatives has further elevated the strategic importance of cultivating outstanding engineers and innovative talents. Meanwhile, Hunan Province is vigorously implementing the “Three Highs and Four New” Initiative, aiming to build a modern and innovative Hunan, with a strong focus on promoting the integrated development of the Changsha-Zhuzhou-Xiangtan urban agglomeration. These regional development strategies offer new opportunities for the university to better align with provincial economic and social growth and to deepen its application-oriented positioning.

3. New Challenges in the New Era

Emerging information technologies — such as artificial intelligence, big data, and blockchain — are being rapidly integrated into the education sector. The global educational transformation triggered by the COVID-19 pandemic has accelerated changes in teaching and learning models. At the same time, intensified global technological innovation and talent competition have posed new challenges to international exchange and cooperation in education. As inter-university and inter-disciplinary competition becomes increasingly fierce, the university faces mounting pressure to qualify as a new master’s degree awarding institution.

Meeting the application criteria requires the university to “address shortcomings, strengthen weak links, cultivate distinctive features, and

consolidate existing strengths.” However, the tasks remain highly demanding. In terms of discipline development, scientific research, talent cultivation, social service capacity, and infrastructure support, there is still a noticeable gap between the university and the standards of high-level institutions. Moreover, some peer institutions — both nationwide and within the province — have already taken the lead in development, presenting heightened challenges to the university’s progress and competitiveness.

II. Guiding Ideology and Development Concepts

(I) Guiding Ideology

Holding high the great banner of Socialism with Chinese Characteristics, and guided by Xi Jinping Thought on Socialism with Chinese Characteristics for a New Era, the university will uphold and strengthen the Party’s overall leadership, fully implement the fundamental task of moral and intellectual education, and remain firmly committed to the new development philosophy.

Focusing on high-quality development as the overarching theme and reform and innovation as the driving force, the university will work to innovate the evaluation system for the quality of education in local application-oriented engineering universities. It will proactively serve the new development paradigm and align closely with Hunan’s “Three Highs and Four New” initiative. By continuously enhancing its internal development and strengthening distinctive features, the university will strive to build itself into a high-level engineering application-oriented university with distinctive strengths.

(II) Development Concepts

Adhering to moral and intellectual education as the fundamental mission, the university will regard the construction of a high-level faculty team as the core, the reform of the governance system and innovation of

operational mechanisms as key drivers, and the “Double First-Class” initiative and Emerging Engineering Education as strategic levers. With discipline development and scientific research advancement as key breakthroughs, the university will further optimize its structure, enhance internal development, expand openness, highlight its distinctive features, and comprehensively improve its core competitiveness. It will continue to enhance its capacity to serve local economic and social development.

1. Clarify the Development Goal

Anchored in the goal of building a distinctive, high-level, engineering application-oriented university, the university will adhere to the educational orientation of cultivating applied talents. Based on a clear understanding of its current foundation and development potential, it will align closely with the national “Double First-Class” initiative and promote comprehensive, coordinated development.

2. Focus on Core Elements

Taking into consideration the essential components of a high-level application-oriented university, the university will identify key gaps and weaknesses. With reform as the primary driving force, it will establish systems and mechanisms conducive to high-quality development in engineering education.

3. Achieve Breakthroughs in Key Areas

By providing sustained and focused support, the university will strive to make breakthroughs in fostering academic leaders, attracting innovative research teams, cultivating top-notch innovative talents, developing strong academic disciplines, and producing high-level teaching and research outcomes. These efforts will collectively enhance the university’s overall educational quality and comprehensive strength.

4. Uphold Characteristic Development

Building upon its historical strengths and educational legacy, the

university will remain committed to the principle of “distinctive features and high standards.” It will deepen the integration of education with industry, actively advance the Excellence Initiative 2.0, strengthen international exchanges and cooperation, and ensure that the university’s program offerings, disciplinary layout, and talent cultivation efforts are well aligned with the needs of industry and regional economic development.

III. Overall Goals and Key Indicators

(I) Overall Goals

The university will comprehensively strengthen its internal development, improve the quality of talent cultivation, and enhance institutional performance. It will implement the “12345 Initiative” as the core framework for development:

1 Fundamental Task: Uphold Moral and Intellectual Education as the fundamental mission of the university.

2 Core Priorities: Focus on (1) student growth and success, and (2) the all-round development of faculty.

3 Development Concepts: Advance university development through (1) quality-driven growth, (2) talent-driven strengthening, and (3) distinctive feature-led revitalization.

4 Major Breakthroughs: Strive for key breakthroughs in (1) national-level research platforms, (2) national-level teaching achievement awards, (3) national-level research outcomes, and (4) recruitment and cultivation of nationally recognized talents.

5 Strategic Initiatives: Promote comprehensive development through five major strategies:

- 1) Party building-led development
- 2) Innovation in talent cultivation
- 3) First-class undergraduate education

4) First-class discipline development

5) Enhancement of scientific and technological innovation

The university aims to obtain authorization to confer master's degrees by 2023 and aspires to make the institutional transition from a “college” to a “university” by 2025.

(II) Key Indicators

To ensure effective implementation of this plan, key performance indicators have been clearly defined for the university's construction and development by the end of the 14th Five-Year Plan period. These include overall institutional indicators, as well as phased targets for sub-plans during 2021–2022 and at the conclusion of the planning period. Please refer to the attached table for details.

The main indicators for the end of the 14th Five-Year Plan period include:

1. Institutional Scale

The university will maintain a stable scale of undergraduate education, expand postgraduate education, and actively develop continuing education. By 2025, the total number of full-time students on campus is expected to reach approximately 23,000, including about 22,000 undergraduates, 1,000 postgraduates, and 100 international students. In addition, approximately 20,000 students will be enrolled in continuing education programs.

2. Discipline Development

The university will strive to obtain qualification as a master's degree awarding institution. By 2025, the number of master's degree authorization points will be expanded to approximately 10, covering more than three disciplines. Efforts will be made to add 3 to 5 disciplines that meet the basic requirements for first-level academic or professional master's degree authorization, as well as cultivate several disciplines that

meet the conditions for awarding doctoral degrees.

Approximately three peak disciplines will be developed within the university. The proportion of young faculty members in provincial-level or above “Double First-Class” applied characteristic disciplines who have overseas study or work experience is expected to exceed 20%.

3. Program Development

Aligned with national development strategies, Hunan Province’s “Three Highs and Four New” initiative, and industrial demand, the university will improve the dynamic adjustment mechanism for academic programs, develop disciplines serving strategic emerging industries, transform and upgrade traditional programs, strengthen the construction of high-level program clusters, and actively advance Emerging Engineering Education. The university aims to establish 2 to 4 national-level first-class undergraduate program sites and 8 to 10 provincial-level first-class undergraduate program sites by the end of the 14th Five-Year Plan period.

4. Faculty Development

The university will continue to optimize the structure of its teaching staff and build a well-structured, high-quality, and application-oriented faculty team. By the end of 2025, the number of full-time faculty members is expected to reach approximately 1,350, including about 500 with doctoral degrees.

At the same time, the university aims to introduce and cultivate approximately 10 high-level leading talents, and to add more than 20 provincial-level high-level talents and over 30 young provincial-level backbone teachers (including candidates under key training programs).

5. Teaching Reform

Under the guidance of the Double Ten-Thousand Plan, the university will deepen teaching reform by improving the integration of industry and

education, strengthening university-enterprise cooperation, and enhancing collaborative education mechanisms.

To meet urgent industrial needs, the university will actively establish modern industrial colleges jointly developed and operated with governments and industry partners. Greater efforts will be made to cultivate teaching excellence, with the goal of receiving two or more second prizes or above in the National Teaching Achievement Awards for Higher Education.

The university will promote the development of high-quality courses and explore smart teaching models such as “Internet + Classroom” and “AI + Teaching”. A number of “golden courses” will be developed, including 2–3 national first-class courses and 18–20 provincial-level first-class courses.

The university will also uphold correct political direction and value orientation, taking the effectiveness of Moral and Intellectual Education as the core criterion for textbook development. It will strive to win two or more national-level textbook development awards.

6. Scientific Research

In alignment with local economic and social development needs, the university will focus on building research strengths in key areas. The average annual research funding per faculty member is expected to remain above RMB 100,000 and continue to grow steadily.

The university will strive to obtain approval for at least one national key project and undertake over 30 national-level research projects. More than five new provincial and ministerial-level scientific innovation teams will be established. The university aims to secure approval for one national-level research platform and add more than 10 provincial and ministerial-level research platforms.

Efforts will also be made to achieve one or two national-level

scientific research awards and to add more than 20 awards at the provincial and ministerial levels. In addition, the university plans to publish over 500 high-level academic papers, release more than 50 academic monographs, and obtain more than 200 authorized invention patents.

7. Infrastructure and Institutional Resources

A secondary overall campus master plan will be developed to optimize functional layout, enhance infrastructure capacity, highlight campus characteristics, and meet the requirements of a modern university.

In line with national benchmarks for university infrastructure, the university will prioritize key construction projects that address basic needs and structural gaps, while gradually improving the implementation of the new campus development plan.

During the 14th Five-Year Plan period, the university will focus on the construction of the Engineering Building, Textile Building, and Science and Technology Building, as well as the enhancement of other academic and auxiliary buildings. By the end of the 14th Five-Year Plan period, the total floor area of school buildings is expected to reach 600,000 square meters, and the total value of teaching and research equipment is projected to exceed RMB 300 million. The library's literature and digital resource collections will fully meet the needs of teaching and research.

8. Financial Resource Development

The university will improve its multi-channel funding mechanism to ensure the sustainable development of institutional operations and to further increase per-student expenditure. By 2022, the university's total revenue is expected to reach approximately RMB 650 million, with per-student expenditure reaching around RMB 31,000. By 2025, total revenue is projected to rise to approximately RMB 760 million, with

per-student operating expenses increasing to around RMB 33,000.

9. Social Services

Focusing on the “Three Highs and Four New” initiative of Hunan Province and Xiangtan City’s core industrial positioning of “Two New and Three Electric”, the university will intensify efforts to promote the transfer and application of technologies in key areas such as equipment manufacturing, automotive and auto parts, military-civil integration, materials and chemicals, green construction, energy-efficient renovation, textile materials, and industrial upgrading.

The university aims to achieve an average annual transformation of more than 10 technological achievements and to assign over 10 science and technology commissioners to enterprises each year, thereby continuously enhancing its social service capacity.

10. International Exchange and Cooperation

The university will actively promote international exchange and cooperation in education. By 2025, it aims to establish over 20 university partnership and exchange programs with institutions in at least 10 countries.

More than 1,100 undergraduate students will be enrolled in joint or cooperative education programs. At least one new Sino-foreign cooperative undergraduate or postgraduate program will be launched, expanding the international student body by approximately 200 students. The number of full-time international undergraduate students on campus is expected to exceed 100.

The university will strive to establish one overseas school with applied disciplinary characteristics or an engineering-focused Confucius Classroom in a Belt and Road partner country. Financial support will be provided for at least 0.2% of undergraduate students and 0.5% of postgraduate students to study or intern abroad annually. More than 1.5%

of graduates from provincial-level or above first-class undergraduate program sites will have overseas study, academic visit, or internship experience by the time of graduation.

IV. Work Measures and Safeguards

(I) Strategic Initiatives

To achieve the university's overall development goals for the 14th Five-Year Plan period, eight major strategic initiatives — referred to as the “Eight Major Projects” — will be implemented under the leadership of the Party Committee.

1. Party Building Leadership Project

Guided by Xi Jinping Thought on Socialism with Chinese Characteristics for a New Era, and with political development as the overarching priority, the university will comprehensively advance Party ideological development, organizational development, work style, discipline, and institutional development. It will continuously strengthen the “Four Consciousnesses”, reinforce the “Four Matters of Confidence”, and uphold the “Two Safeguards”.

The university will uphold and strengthen the Party's overall leadership over its work, remain firmly committed to the socialist orientation in education, and build a clean and honest campus. Efforts will be made to continuously improve the university's capacity for Party self-governance and institutional governance, providing a strong political guarantee for the fulfillment of the university's fundamental mission of moral and intellectual education.

2. Moral and Intellectual Education Project

Centering on the comprehensive improvement of talent cultivation quality, the university will fully implement the fundamental task of Moral and Intellectual Education. It will further update educational philosophies, innovate talent development mechanisms, and help students strengthen

their moral character, personal integrity, willpower, and patriotism, thereby enriching their holistic development.

The reform of Ideological and Political Work will be advanced, with a focus on improving the Ten Major Education Systems. Ideological and political education will be integrated into all aspects of university functions — including teaching, research, management, and services — and throughout the entire educational process. This will form a comprehensive educational model involving all personnel, covering all fields, and throughout all stages.

The construction of ideological and political curricula will be further strengthened. Teaching reforms will be deepened to fully integrate ideological and political elements into professional courses, thereby improving their relevance, appeal, and effectiveness.

The university will also strengthen the team of ideological and political course instructors, full-time student counselors, and mental health educators, striving to build a professional team that is appropriately staffed, well-structured, and composed of high-quality full-time and part-time members.

3. First-Class Discipline Development Project

Closely aligned with national development strategies and Hunan Province's "Three Highs and Four New" initiative, the university will adhere to principles of tiered development, differentiated advancement, and distinctive positioning.

Benchmarking against national first-class disciplines and provincial-level applied characteristic disciplines, the university will strengthen the classification and hierarchical development of disciplines into three tiers: peak, leading, and supporting. Emphasis will be placed on performance-based assessment, with dynamic adjustment of supporting disciplines and the level of support provided.

A discipline ecosystem will be constructed based on the structure of specialization – discipline field – discipline cluster. The postgraduate education system will be further optimized, and the overall quality of postgraduate training will be comprehensively improved.

4. First-Class Undergraduate Education Project

Guided by national strategies and the needs of regional economic and social development, the university will deepen the application-oriented positioning of undergraduate education and actively explore the establishment of evaluation standards for such programs. The university will continue to implement “Excellence Initiative 2.0”, advance Emerging Engineering Education, and promote the development of New Liberal Arts. It will also strengthen the development of high-level disciplinary clusters in fields such as electrical engineering, mechanical engineering, textile engineering, chemical engineering, management, and information technology.

In response to industry needs, a collaborative education mechanism involving government, industry, academia, and research will be established to jointly build and manage modern industrial colleges. The dynamic adjustment mechanism for academic programs will be further refined to support the transformation and upgrading of traditional disciplines and the development of specialties aligned with strategic emerging industries.

The university has been approved for a number of national and provincial first-class undergraduate program sites, and will continue promoting the construction of high-quality courses and exploring Smart Teaching Models. It has also been approved for several national and provincial first-class courses.

International cooperation in education will be strengthened through partnerships with renowned universities and enterprises in countries such

as the United Kingdom, Germany, and Belt and Road partner countries. Faculty members will be encouraged to participate in international academic exchanges, and high-level overseas scholars will be invited to deliver lectures at the university.

5. Talent-Strengthening Project

The university will improve its talent recruitment mechanism by empowering academic units as the driving force and employers as the main agents. Efforts will be intensified to attract outstanding talent, with a focus on introducing high-level leading scholars, academic leaders, highly skilled professionals, and elite industry teams from both domestic and international sources.

A systematic, institutionalized, and regularized training framework will be established to enhance faculty teaching capacity, and a number of teaching masters and high-performing teaching teams will be cultivated. The university will promote enterprise engineering experience among full-time faculty and expand opportunities for mid-career teachers to study and conduct research abroad.

In full implementation of the Overall Plan for Deepening the Reform of Education Evaluation in the New Era, the university will take education evaluation reform as the guiding principle and deepen the reform of its personnel management and performance-based compensation systems. The professional title system will also be improved, with classification- and level-based evaluation mechanisms further refined.

Additionally, the university will establish and strengthen the evaluation and supervision system for teacher ethics, and strictly enforce the “one-vote veto” policy in cadre selection, professional title evaluation and appointment, and recognition and awards.

6. Science and Technology Development Project

Guided by major national strategies and industrial demands, the university will strengthen collaborative innovation across government, industry, academia, research, and application, with the aim of enhancing both its scientific and technological innovation capacity and its contribution to social services.

Efforts will be made to enhance the university's ability to undertake major projects, build and cultivate strong innovation teams, and give full play to the university's engineering strengths. A results-oriented achievement cultivation mechanism will be established, linked closely to project approval, while the structure and layout of research platforms will be further optimized.

On the basis of maintaining the number of national-level projects and technology transfer outcomes, the university will increase the number of provincial and ministerial-level research awards, scientific innovation teams, and innovation platforms. It will aim to produce landmark scientific achievements that significantly elevate the university's scientific and technological competitiveness.

Adhering to the principle of prioritizing core competitiveness in research, the university will improve the evaluation system for senior professional titles and establish an internal system for awarding university-level senior professional titles to outstanding talent. The Open Competition for Key Projects mechanism will be implemented to promote breakthroughs in national-level key projects, high-level research platforms, and prestigious scientific achievement awards.

7. Governance Capacity Enhancement Project

With the ten special reform initiatives as the driving force and the modernization of the university's governance system and capacity as the overarching goal, the university will accelerate the implementation of key reforms to ensure that policies are institutionalized and results are

achieved.

The “Overall Plan” for Deepening the Reform of Education Evaluation in the New Era will be fully implemented by formulating a clear list of reform tasks, proposing targeted rectification measures, and steadily advancing education evaluation reform.

Emphasis will be placed on strengthening the management team and fully leveraging its role in goal setting, strategic coordination, resource integration, implementation supervision, and continuous improvement. The Management by Objectives (MBO) system will be further optimized to reinforce policy execution, monitoring, and evaluation mechanisms.

Institutional management will be improved at both the university and school / college levels, with a continued shift of focus toward decentralized, front-line governance. The resource coordination mechanism will be refined to emphasize revenue generation and cost control, and financial management capacity will be enhanced. Supervision of resource allocation and the management of state-owned assets will be strengthened.

The university will also promote the steady construction of a smart campus and ensure the successful transition of the Independent College Restructuring process.

8. Cultural Development and Education Project

Guided by the core values of socialism, the university will build a campus culture that embodies the spirit of the times, reflects Chinese characteristics, highlights the cultural heritage of Hunan, and showcases the identity of Hunan Institute of Engineering.

The university will fully explore and carry forward its fine traditions by building and utilizing its school history museum and organizing a series of commemorative activities for the 70th anniversary of its founding, thereby fostering institutional pride and a sense of shared

mission.

Efforts will be made to integrate moral education with intellectual, physical, aesthetic, and labor education, and to combine professional engineering education with well-rounded humanistic education. The university will focus on developing influential campus cultural brands, fostering student associations with strong participation, and cultivating a dynamic extracurricular environment that enhances students' creativity, teamwork, and practical abilities.

(II) Safeguard Measures

1. Ideological and Organizational Guarantee

(1) Strengthening Ideological and Political Construction

The university will vigorously strengthen ideological and political construction and enhance the leadership role of ideological and political education. The political development of the Party will be prioritized, and the Party's educational policies will be fully implemented. The university will remain committed to the socialist orientation in education and to fulfilling the fundamental task of Moral and Intellectual Education.

Reforms in ideological and political theory teaching will be promoted to ensure that classroom instruction remains the main channel and central platform for cultivating students' ideological and political awareness.

The university will further advance the integration of ideological and political education into all areas of curriculum design and instruction. Specifically, it will be incorporated into all academic program development and talent cultivation plans, all classroom teaching, all course textbooks, and all full-time faculty — achieving comprehensive coverage across four key areas.

In addition, the university will carry out initiatives to promote upright political conduct, a clean and principled campus atmosphere,

professional teaching ethics, and positive academic culture. These efforts will further consolidate the outcomes of building an Integrity-Based Campus.

(2) Strengthening Grassroots Party Organizations

The university will earnestly strengthen the development of grassroots Party organizations and implement the general requirements for Party building in the New Era. Based on the Constitution of the Communist Party of China and intra-Party regulations such as the Regulations on the Work of Party Organizations at the Grassroots Level in Regular Institutions of Higher Learning, the university will further improve the organizational system of grassroots Party branches.

Greater emphasis will be placed on enhancing the sense of responsibility for Party building as a core task. The system of accountability based on clearly defined responsibilities at the primary level will be refined. Efforts will be made to advance the informatization, intelligent management, and precision governance of Party affairs, thereby promoting the construction of a Smart Party Building system.

2. Institutional and Mechanism Guarantees

(1) Improving the Modern University System and Advancing Law-Based Governance

The university will continue to improve its modern university governance system and promote law-based administration. The University Charter will be fully implemented. Under the principal responsibility system led by the Party committee, the academic committee will play a leading role in academic development, evaluation, and the formulation and enforcement of academic standards, thereby enhancing the internal academic governance system.

Professors will be encouraged to take the lead in teaching, scientific

research, and discipline development, helping to cultivate a sound academic culture. The university will also strengthen the development of the faculty and student congresses and ensure that mass organizations play an active and constructive role in university affairs.

(2) Improving Management Mechanisms and Enhancing Educational Quality

The university will optimize its management and operational mechanisms to further improve the quality of education. Responsibilities of administrative departments will be adjusted in accordance with the principles of function enhancement, role alignment, streamlined procedures, and improved efficiency.

The management approach of university-level functional units will be reformed to shift focus toward front-line implementation and promote precision-based, decentralized management. The development of e-government platforms will be advanced, along with improvements in office automation and digital workflows.

The supervision and inspection system will be strictly enforced to improve administrative efficiency. The emergency response mechanism will be further strengthened to enhance the university's capacity to manage various risks — particularly in responding to epidemics, natural disasters, and other public emergencies.

3. Educational Funding Guarantee

(1) Expanding Financial Support Channels and Ensuring Resource Sustainability

The university will actively seek financial support from multiple sources to ensure sustainable funding for institutional development. Efforts will be made to secure support from all levels of government and relevant departments, including:

- Special funds for the Double First-Class initiative

- Central government funds for strengthening the capacity of local universities

- Infrastructure construction funds

- Subsidies under the Education Power Promotion Project

- Special local government bonds

Tuition income will be managed rigorously to ensure full and timely collection. The university will also strengthen collaboration with enterprises, alumni, and social partners to mobilize additional support for talent cultivation and scientific research.

A sound and sustainable financial management system will be established to reduce risks and ensure the effective and compliant use of funds.

(2) Reforming the Budget Allocation System and Advancing Comprehensive Budget Management

The university will deepen reforms of its budget allocation system by promoting full-process, performance-based budget management. Functional departments will no longer directly manage funds, but will focus on policy guidance, assessment, and oversight.

Greater financial autonomy will be granted to colleges and departments. A performance evaluation system for academic units will be established, aiming to gradually form a budgetary management model that promotes self-development and self-regulation. The management of horizontal research funds will also be reformed to further stimulate the initiative and enthusiasm of faculty members engaged in research activities.

4. Teaching Service Guarantee

(1) Accelerating Smart Campus Development and Promoting Modernization of Education

The university will accelerate the construction of a high-quality

smart campus by applying modern information technologies such as 5G, big data, and artificial intelligence. New infrastructure projects will be prioritized to support the deep integration of digital technology with education and teaching. Efforts will be made to innovate teaching methods and models, and to comprehensively improve the digital literacy and application capabilities of both faculty and students. In parallel, the university will innovate its operational and governance mechanisms to support the modernization of its education management system and governance capacity.

(2) Enhancing Facilities and Resources to Support Teaching Quality

The university will continue to improve its infrastructure to foster a green, ecological, and modern campus environment. With a focus on talent cultivation, discipline development, and scientific research, the university will further enhance its literature and information resource system. A well-structured and enriched digital resource platform will be established to support teaching and research across disciplines.

Conclusion

The successful implementation of the university's 14th Five-Year Construction and Development Plan is of great significance. While the tasks ahead are demanding, the prospects are bright. All faculty, staff, and students must strengthen their confidence, remain committed to the university's mission, and work together in solidarity. Through perseverance and collective effort, the university will advance toward its goal of becoming a high-level engineering application-oriented university with greater strengths and more distinctive features.