大学院総合理工学研究科の沿革

Our History

1. 研究科の発足

本研究科は、大学院重点化の先駆的事例として昭和 50 年 4 月に長津田キャンパス(現すずかけ台キャンパス) に創設されました。創設時は、基幹 25 講座と協力 47 講座の合計 72 講座編成で、物理情報工学専攻、電子化学専攻、社会開発工学専攻、精密機械システム専攻、材料科学専攻、電子システム専攻、化学環境工学専攻、生命化学専攻、エネルギー科学専攻、システム科学専攻の 10 専攻から構成されていました。

2. 研究科の自己改革

発足以来昭和６２年度までに基幹と協力講座合わせて１０講座が増設され、生命化学専攻は、生命理工学部の発足に伴い平成３年４月に知能科学専攻へと名称を変更、教育研究を生命現象である知能にシフトし、教員の配置換えを行うなど、本研究科の自己改革の先駆けとなりました。平成５年４月には環境物理工学専攻が新設され、さらに平成７年４月には社会開発工学専攻とエネルギー科学専攻が改組され、人間環境システム専攻と創造エネルギー専攻が発足しました。平成８年４月にはシステム科学専攻と知能科学専攻を改組し、知能システム科学専攻を、また、平成９年４月には電子化学専攻と材料科学専攻が母体となり、物質科学創造専攻が設立されると同時に両専攻は物質電子化学専攻と材料物理科学専攻へと改組いたしました。

改組により、基幹講座は大講座となり、また組織対応のある連携教授・准教授のポストを持つなど、新しいスタイルの組織が導入されました。なお、物質科学創造専攻は新しい学問領域の創造を標榜する全国で初めての専攻として、本大学院に設置されました。さらに、社会の変化と要請に応えるべく平 成１０年から平 成１７年にかけて多くの専攻が改組され、化学環境学専攻、環境理工学創造専攻、メカノマイクロ工学専攻、物理電子システム創造専攻および物理情報システム専攻が発足しました。

本研究科は創設以来、常に自己改革を行いながら今日を迎え、現在、本研究科は基幹２２大講座および協力５５講座の合計７７講座、１１専攻という構成で教育研究を行っています。

1. Establishment of the Interdisciplinary Graduate School

The Interdisciplinary Graduate School of Science and Engineering was founded at the Nagatsuta Campus (currently Suzukakedai Campus) in April 1975, as a pioneering example of increasing the emphasis on graduate schools. When it was founded, the Interdisciplinary Graduate School consisted of 72 Chairs (Koza): 25 Fundamental Chairs (Kikan Koza) and 47 Cooperative Chairs (Kyoryoku Koza). The School had 10 departments; Information Processing, Electronic Chemistry, Social Development, Precision Machinery Systems, Materials Science Engineering, Applied Electronics, Chemical Environment Engineering, Biochemistry, Energy Science, and Systems Science.

2. Self-transformation of the Interdisciplinary Graduate School

From the foundation of the school until 1987, 10 Chairs (Fundamental Chairs and Cooperative Chairs) were added. With the foundation of the Dept. of Bioscience and Biotechnology, the Dept. of Biochemistry was renamed the Dept. of Intelligence Science in April 1991. The department shifted its educational and research focus to intelligence, a phenomenon of life processes, and relocated instructors, setting a precedent for self-transformation in the Interdisciplinary Graduate School.

From 1993 to 1996, the Dept. of Environmental Engineering was established, and the Dept. of Social Development and the Dept. of Energy Science were reorganized to form the Dept. of Built Environment and the Dept. of Energy Sciences. The Dept. of System Science and the Dept. of Intelligence Science were also reorganized to form the Dept. of Computational Intelligence and Systems Science. In April 1997, the Dept. of Innovative and Engineered Materials was established from the two departments of Electronic Chemistry and Materials Science Engineering, and these two departments were reorganized to form the Dept. of Electronic Chemistry and the Dept. of Materials Science and Engineering. Because of these changes, all the Fundamental Chairs of these departments have become Macro Chairs (Daikoza) and the departments have also established positions for collaborative professors and associate professors, introducing new styles of organization. To respond to social changes and demands, many departments were reorganized from 1998 to 2005 to form the following departments; Environmental Chemistry and Engineering, Environmental Science and Technology, MechanoMicro Engineering, Electronics and Applied Physics, and Information Processing.

Since its foundation, our Graduate School has been constantly transforming. As of April 2010, it provides education and research through 77 Chairs (22 Fundamental Chairs (Macro Chairs) and 55 Cooperative Chairs) and 11 departments. When it was founded, the Interdisciplinary Graduate School consisted of 72 Chairs (Koza): 25 Fundamental Chairs (Kikan Koza) and 47 Cooperative Chairs (Kyoryoku Koza). The School had 10 departments; Information Processing, Electronic Chemistry, Social Development, Precision Machinery Systems, Materials Science Engineering, Applied Electronics, Chemical Environment Engineering, Biochemistry, Energy Science, and Systems Science.