

Department of Astronautics and Aeronautics College of Engineering CHUBU UNIVERSITY



The Chubu Region has been designated by the Japanese Government as an International Strategic Special Zone and many aerospace companies are located in and around Aichi Prefecture. We will educate students who will be able to demonstrate their abilities as global leaders in the field of aerospace manufacturing and development.



Point Supporting each and every one

by lecturing with small number of people.

Point Special lecture inviting

engineers and managers of the front line.

Point Learning of the composite

knowledge on electronic information and mechanical.

Point Learning the manufacturing

from the experience at the company sites.

Point Mastering the operation of

CATIA and MATLAB.

Students can use 97 CATIA licenses.

(Largest number of licenses in the universities at Chubu region)

Point Overseas training in the US aviation industry gathering area.

Faculty members

NAKAMURA Yoshiaki, Prof.

Aeronautical Eng., Fluid dynamics, CFD

Research: Aerodynamics, Aerodynamic heating, Numerical simulation and experiments

Career: Prof. of Nagoya University, Director of Japan Students Aviation League, Councilor of Chubu Aeronautical Industrial Technology Center, Fellow of Japan Society for Aeronautical and Space Sciences, Fellow of Japan Society of Fluid Mechanics

MUTOH Takashi, Prof.

Plasma physics, Electromagnetics, High-frequency eng.

Research: Production, heating and acceleration of plasma. Space propulsion with plasma. High-power and high-frequency electromagnetic power system. Heating of plasma by electromagnetic waves.

Career: Associate Prof. of Kyoto Univ., Prof. of National Institute for Fusion Science

ISHIDA Muneaki, Prof.

Electronic device, Power electronics

Research: Control of vibration by electronic device torque. Electric power transmitter of airplane engines.

Career: Assistance Prof. of Nagoya University, Prof. of Mie Univ.

HONDA Kiyoshi, Prof.

Remote sensing, IT agriculture

Research: Agriculture work planning by combination of information from satellites and UAV with agricultural simulation.

Career: Nippon Koei Co., Ltd., Adjunct Associate Professor of Mie Univ., Distinguished Adjunct Prof. of Asian Institute of Technology

KANDA Takeshi, Prof.

Aerospace propulsion, Thermodynamics, Fluid dynamics

Research: Jet propulsion, Propulsion system of rocket and air plane. Hypersonic

aerodynamics.

Career: Japan Aerospace Exploration Agency

TANAHASHI Yoshiharu, Prof.

Flight dynamics, Fluid dynamics, Aerodynamic heating

Research: Aerodynamics of high speed vehicles, Visualization of high speed airflow.

Career: Mitsubishi Heavy Industries, Ltd.

IKEDA Tadashige, Prof.

Aerospace structures, Smart materials & structure systems

Research: Analysis of smart materials and structure systems. Creation of multi-functional composites. Application of smart structure systems to aerospace structures.

Career: Techinical official of Agency of Industrial Science and Technology, Associate Prof. of Nagoya Univ., Fellow of Japan Society for Aeronautical and Space Sciences.

HOGURO Masahiro, Prof.

Measurement from image info, Speech & image processing

Research: Image recognition & understanding using artificial neural networks and/or speech recognition technologies, Biometric verification(Fingerprint,

FingerVein, Face), Medical information sharing system

Career: NEC Corp., DDS Inc.

EBINUMA Takuji, Associate Prof. Space technology, Satellite positioning, Navigation

Research: Trajectory prediction of rockets and satellites with satellite navigation system, Navigation system for small satellites, Remote sensing with satellite information, Security of satellite positioning waves

Career: Univ. of Texas at Austin, Univ. of Surrey, Mitsubishi Electric Co., Tokyo Univ.

HATTORI Koosuke, Senior Assistant Prof.3D measurement, Sound & image recognition, Statistical proc.

Research: Sensing system with sound and images, 3D measurement, visualization of statistical data.

Career: Postdoctoral Fellow in the Robotics Institute at Carnegie Mellon Univ.

KANDA Masae, Senior Assistant Prof. Aerospace material, Composite material

Research: Development of light-weight cryogenic container for space and aviation,

Electroactive polymer, Mechanical property of composite material

Career: National Institute of Applied Science in Lyon (INSA Lyon), FRANCE (Ph.D.)/ Research fellow of the Japan Society for Promotion of Science (JSPS), Postdoctoral Fellow (PD)/ Center of Applied Superconductivity and Sustainable Energy Research

Curriculum

Category	Freshman	Sophomore	Junior	Senior
Science	 Basic Mecahnics Practice in Basic Mechanics 	Vibrations and WavesElectromagneticsPractice in Electromagnetics		
Aerodynamics, Power Propulsion		 Fluid Dynamics Practice in Fluid Dynamics Aerodynamics Thermodynamics Practice in Thermodynamics Aerospace Plasma Science 	Heat-Transfer Engineering Jet Engine	
Materials and Stractures	 Mechanics of Materials Practice in Mechanics of Materials 	 Structural Mechanics Practice in Structural Mechanics 	 Aerospace Materials Production Engineering 	
Gundance Control and Dynamics		 Control Engineering Practice in Control Engineering Electric and Electronic Circuits Practice in	 Flight Dynamics MATLAB Mechatronics Electric and Electronic Devices for Aerospace Software Development Aerospace Utilization Applied Astronautical Information Engineering 	
Design	• Engineering Drawings	 CAD/CATIA Rocket Engineering Aerospace Equipment 	 Design Practice on Aerospace Satellite Systems Helicopter Engineering 	
Other Aerospace Topics	 Introduction to Aerospace Manufacturing Practice A Manufacturing Practice B 	 Aerospace Laboratory Work A Aerospace Laboratory Work B Factory Visits Internship A 	 Special Lectures on Aerospace A Internship B Special Lectures on Aerospace B Management Engineering 	• Advanced Aerospace
		Aerospace English A	 Aerospace English B Aerospace English C 	

