

Results of Evaluation of the 2nd Mid-term Goal Period

(FY2012-2017)

**Business Achievements of the Public University Corporation,
the University of Aizu**

August, 2018

Fukushima Prefecture Public University Corporation Evaluation Office

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Part 1 “Overall Evaluation”

The University of Aizu (“the UoA”) aims at realization of the founding principle, “to Advance Knowledge for Humanity” while the University of Aizu Junior College Division (“the JCD”) has traditionally produced quality talent capable of contributing to society over the long term as the only high educational organization in Aizu region before the UoA. Based on these, the mission of the UoA and JCD is to contribute to advancement of science and technology through talent development and research, etc. in the fields of computer science and engineering, information science, food and nutrition, and early childhood education. Together they also aim to contribute to industrial/cultural development in the prefecture.

During the second mid-term goal period, the UoA and the JCD each had their own basic goals. The UoA endeavored to contribute to the future of our nation and the development of local communities by always taking a leading role as a pioneer on an international level. The JCD aimed at contributing to the improvement and development of everyday life, culture, and industry in local communities through deep education and research in specialized arts and sciences as well as development of the abilities students will need in work and in life. The UoA and JCD also shared a goal to contribute to revitalization following the Great East Japan Earthquake. Internal organizations such as the Board of Executives, Management Council, Education and Research Council, and faculty and staff members - worked closely together as a corporation under the leadership of the Chairperson to achieve the mid-term goals through active initiatives related to education, research, regional contribution, and international exchange. As a result, they made some achievements. In the field of international exchange in particular, the UoA was selected for Top Global University by the government and established the Center for Globalization and oversea exchange bases. These active efforts for globalization of the university are worthy of high praise and led to the UoA being highly ranked in THE’s World University and Japanese University Rankings.

In addition to compliance with relevant laws and ordinances such as the Standards for Establishing University, both the UoA and JCD underwent the accreditation evaluation by the Japan University Accreditation Association in FY2017 and were certified as “meeting the university accreditation standards”.

The UoA received high praise from the accreditation association for conducting high-quality university-wide English education aimed at developing experts in the field of computer science and engineering who are capable of

using English language flexibly. However, the accreditation association identified some issues. These include a high maximum credit limit per year in the undergraduate school, a lack of distinction among each department of undergraduate and graduate school in terms of their admission, diploma and curriculum policies, inappropriate combination of course work with research work in the Doctoral Program, and insufficient indication of research teaching plan to students. Early improvement is expected for these issues, apart from the latter, which was already taken care of.

The JCD is engaged in a number of initiatives that are worthy of high praise. These initiatives include:

- *Development of experts through practical learning and practical education directly connected to supporting prefectural revitalization and local contribution
- *Establishment of the Center for Rejuvenation of Local Communities Operational Promotion Meeting as a part of initiatives for regional collaboration and social contribution
- *Promotion of strengthening the collaboration by exchanging opinions and reporting its activities at the meetings
- *Effectively contributing to the local community by holding a number of off-campus lectures and carrying out practical learning and practical education that involve students in the planning process

On the other hand, the association pointed out some issues such as a lack of distinction among the departments in terms of diploma policy and a lack of indication of abilities that students are supposed to master by the completion of the courses. However, both of these issues have already been taken care of. Other issues pointed out were deterioration of living environment for students residing in the JCD's aging dormitory and a lack of the space needed to manage books in the cramped library.

1 The University of Aizu

The UoA worked on number of initiatives to develop quality researchers/engineers who can be successful in the field of computer science and engineering both domestically and internationally. These initiatives include:

- *Discussing the introduction of quarter system at the undergraduate school to enhance integrated education at the undergraduate and graduate school
- *Starting the ICT Global All-English Program, establishing an overseas base in Silicon Valley in the U.S.
- *Collaborating with comprehensive junior and senior high school and provided public lectures based on a high school-university partnership agreement
- *Hosting the "PC Koshien" (All-Japan High School Computing Contest) aimed

at developing ICT experts by improving programming skills, etc. of high school students

Further, the UoA made steady achievements in the field of research by analyzing big data at “LICTiA” which is a base for empirical research in the field of leading-edge ICT in the prefecture and played a central role in the analysis, promoting and conducting research utilizing its cloud platform, establishing a robot software library, and so on.

It has also been working on various unique initiatives for regional contributions such as “Aizu Open Innovation (AOI) meetings”.

Other praise-worthy initiatives include expanding efforts to help students find employment, lively faculty development (FD) activities, concluding international exchange agreements with overseas universities through the Center for Globalization and conducting exchange activities with these partner universities, and employing world-class educators/researchers from Japan and around the world.

2 UoA Junior College Division

The University of Aizu Junior College Division (JCD) engaged in various initiatives for local contributions and development of professionals with expertise by utilizing its specialized fields (management, design, information, nutrition, food, health, welfare, childcare, early childhood education, etc.) and working more closely with local communities, which is worthy of praise. These initiatives include:

- *Implementing small-group instruction
- *Taking part in regional problem-solving through “Regional Project Exercises”
- *Improving classes by publicizing and informing instructors of the results of class evaluations
- *Conducting FD
- *Providing attentive care to students by utilizing Office Hours (*1)
- *Conducting research by applying specialized fields closely connected with people’s everyday lives
- *Cooperating on various regional vitalization projects in collaboration with the prefecture and municipalities through the Center for Regional Rejuvenation of Local Communities
- *Proactively publicizing educational/research activities, etc.
- *Providing off-campus lectures, etc.

Part 2 “Evaluation By Item”

1 Measures That Should Be Taken to Achieve Goals Related to Increasing the Quality of University Education and Research, Etc.

[Evaluation] We recognize that “II: The Mid-term Plan Was Largely Carried Out.”

(1) Measures Taken to Achieve Education Goals

[Evaluation] We recognize that “II: The Mid-term Plan Was Largely Carried Out.”

[Praise-worthy Initiatives in Mid-term Goal Period: ○ (Issues Requiring Work, etc.: Δ)]

(UoA)

- In order to secure students meeting the admission policy, the UoA created more effective PR activities related to student recruitment, updated the campus guide by verifying and analyzing the results of questionnaire survey to applicants at the Admissions Center meetings, etc., proactively conducted high-school visits, etc. It also, among other things, made partial revisions to selection methods, including the introduction of an admission category which requires applicants to take five subject areas and seven subjects of the Center Test and addition of an entrance examination venue in Kyoto, which resulted in an upward trend in the competition ratio.

[Competition Ratio (General Entrance Exam)]

| Category | AY2013 Admission | AY2014 Admission | AY2015 Admission | AY2016 Admission | AY2017 Admission | AY2018 Admission |
|-----------|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|
| General A | 4.1 to 1 | 4.1 to 1 | 4.5 to 1 | 5.7 to 1 | 6.0 to 1 | 6.2 to 1 |
| General B | — | — | — | — | 6.3 to 1 | 3.1 to 1 |

Notes: “General A” requires one science subject in the Center Test and “General B” requires five subject areas and seven subjects in the Center Test

- In order to secure quality students, the UoA provided various kinds of information mainly through web advertisements more narrowly targeting students interested in the university. It also newly developed partnerships with promising high schools in western Japan and conducted effective and efficient high-school visits based on past exam results. The UoA received the highest number of applicants for the general admissions examinations in FY2016 since the incorporation of the university. In addition, the attendees at Open Campus in FY2017 surpassed 1,000 for the first time ever.

[Number of Applicants (General Entrance Exam)]

| AY2013 | AY2014 | AY2015 | AY2016 | AY2017 | AY2018 |
|--------|--------|--------|--------|--------|--------|
|--------|--------|--------|--------|--------|--------|

| | | | | | |
|-----------|-----------|-----------|-----------|-----------|-----------|
| Admission | Admission | Admission | Admission | Admission | Admission |
| 715 | 711 | 786 | 989 | 1,051 | 964 |

- For the graduate program, the UoA strove to recruit quality international students in collaboration with partner universities by making use of National Scholarship Programs and the dual degree program, etc. It also made efforts to secure applicants among UoA undergraduates and from outside the UoA. As a result, enrollment in master's program has been increasing since AY2016 in comparison with AY2013 (73 students), despite the temporary decrease between these periods.

[Number of Enrollment in Master's Program]

| | | | | |
|---------------------|---------------------|---------------------|---------------------|---------------------|
| AY2013 Admission | AY2014 Admission | AY2015 Admission | AY2016 Admission | AY2017 Admission |
| 73 | 63 | 65 | 81 | 79 |

- As an initiative to make undergraduate students consider continuing their educations into the graduate school, the UoA decided to introduce a quarter system and rearranged the curriculum aimed at improving the continuity between undergraduate and graduate education. It also shifted from the Undergraduate-Master's five-year integrated program to the honor's program and worked to improve the program's content.
- The UoA decided to introduce a new curriculum, discussed and finalized the details, and worked on initiatives toward the implementation of education and research aligning with the progress in computer science and engineering and our computerized society.
- At the graduate school, the UoA strove to develop students who have the ability to make proposals and practical skills that are viable in the real world, rich creativity, and entrepreneurial spirit by implementing active learning methods such as project-based learning (PBL) and flipped classroom in courses including "Software Studio" and "Factories for Experiencing Starting up Ventures".
- The UoA promoted practical English education by conducting systematic and practical English education provided by the international faculty members of the Center of Language and Research (CLR), each of whom hold a doctoral degree. It also mandated students who entered the university in FY2018 or after to obtain a TOEIC score of 400 or higher before they advance to the third year. By doing these, it assured that all undergraduate students would take the test in the future.
- The UoA actively provided life consultations for international students and study abroad consultations for Japanese students who were interested in.
- The UoA contributed to the promotion of not only regional exchange but

also international exchange in the region by sending their international students along with Japanese students to exchange events in the Nakagoya community in Minamiaizu.

- △ The UoA has strove to increase the number of students who continue their education into graduate school by, among other things, utilizing the “5-year Integrated Undergraduate-Master’s Program” and its associated scholarships. However, only 20 to 30% of students continued to study in the Master’s program compared to the target for the mid-term goal period of 40%. The situation needs to be improved.

(JCD)

- The JCD established the Admission Exam and PR Center in FY2017 to comprehensively perform duties related to admission examinations and PR activities. The center played a central role in the initiatives to improve PR activities such as publication and dissemination of the admission policy, high-school visits, entrance examination orientation meetings, open campus events, and dissemination of information in and outside the prefecture through various types of media such as LINE, TV and radio. These efforts resulted in an increase in the number of applicants and enabled the university to secure quality students.
- The JCD continuously inspected and evaluated its curriculum. At the Department of Industrial Information Sciences, it organized an effective and efficient curriculum that precisely meets the needs of the times and society by, among other things, introducing new courses - Advertisement Strategy Theory (common subject) and Architectural Drafting - and increasing full-time faculty members in the field of graphics, based on the needs of students.

At the Department of Food and Nutrition Sciences, preparatory courses, etc. were provided for the Nutritionist Skill Accreditation Examination. As a result, all of the students looking to obtain the Nutritionist License were able to do so.
- At the Department of Early Childhood Education, all of the students looking to obtain the Nursery Teacher Certification and/or Second-class Preschool Teacher License were able to do so.
- The Career Support Center played a central role in increasing the number of companies that provide internship programs in order to respond to student’s geographical and industry-specific needs. It also used orientation meetings to inform students about job listings on companies’ websites that aren’t posted on job boards. These efforts increased the number of participants for internship programs.
- By updating the internal network systems, etc., the JCD is now able to respond promptly to issues related to the projection systems in each class room, making it possible to provide education utilizing various media.

- The JCD strove to improve the quality of education through faculty development (FD) activities such as conducting “class evaluation by students” in all courses. These evaluations require faculty members to create improvement plans and respond to students based on the results of evaluation and improve teaching methods.
- The JCD established the Department of Early Childhood Education in FY2016 in order to allow students to obtain the Preschool Teacher License in addition to Nursery Teacher License at the Department of Social Welfare, the previous name of the department.
- The JCD increased opportunities for students to utilize computer networking devices by giving them assignments that require them to submit materials, create presentation materials, etc. using computers. It also provided audiovisual aids by introducing e-learning system available to all students.
- The JCD created an environment to allow students to better utilize the information needed in job recruitment by reviewing the web pages regarding the Career Support Center in the website of the college.

(Shared)

- Both the UoA (Undergraduate and Graduate School) and JCD provided various support to job hunting activities. Consequently, regarding the numerical target (employment rate among those looking for a job) for the mid-term goal period, the UoA Graduate School achieved the target while the JCD nearly achieved the target. However, the UoA Undergraduate School maintained high employment rates each year even though they missed the target.

UoA Undergraduate School (Target: 100%)

FY2012 Performance: 96.2%
 FY2013 Performance: 93.8%
 FY2014 Performance: 95.7%
 FY2015 Performance: 96.0%
 FY2016 Performance: 98.6%
 FY2017 Performance: 98.1%

UoA Graduate School (Target: 100%)

FY2012 Performance: 100.0%
 FY2013 Performance: 100.0%
 FY2014 Performance: 100.0%
 FY2015 Performance: 100.0%
 FY2016 Performance: 100.0%
 FY2017 Performance: 100.0%

JCD (Target: 100%)

| | |
|---------------------|-------|
| FY2012 Performance: | 97.1% |
| FY2013 Performance: | 97.9% |
| FY2014 Performance: | 99.2% |
| FY2015 Performance: | 99.3% |
| FY2016 Performance: | 99.3% |
| FY2017 Performance: | 99.3% |

- In order to reduce financial burden of students, the JCD implemented a tuition waiver program and also provided tuition reductions/exemptions for those affected by the Great East Japan Earthquake.

(2) Measures Taken to Achieve Research Goals

[Evaluation] We recognize that “II: The Mid-term Plan Was Largely Carried Out.”

[Praise-worthy Initiatives in Mid-term Goal Period: ○ (Issues Requiring Work, etc.: △)]

(UoA)

- ARC-Space in CAIST engaged in initiatives including:
 - * Joining a planning team for space projects such as the launch of the “Hayabusa 2” asteroid explorer in 2014
 - *Developing and providing a remote monitoring and commanding system, thermal infrared camera calibration viewer, lunar GIS tool
 - *Distributing data from the “Kaguya” lunar explorer satellite.
- ARC-Environment engaged in initiatives including:
 - *Investigating climate in Fukushima prefecture and Tohoku region via microscale weather forecasting, etc.
 - *Conducting research on long-range forecasting with the APEC Climate Center and Columbia University.
 - *Developing computer/mobile device applications and low-cost environmental sensors/data loggers for local weather forecasting for research purposes.
 - *Carrying out research on forecasting of solar radiation level based on the CReSS (Cloud Resolving Storming Simulator) cloud analysis model and renewable energy (wind and solar power)
 - *Conducting high-resolution long-range forecasting of Indian summer monsoon, etc.
- ARC-BME conducted research on unconstrained biological monitor and Cell Mechanics in collaboration with Fukushima Medical University. It also conducted joint research with domestic and international institutions such as Tohoku University, Fukuoka University, Toho University, Asahi Electric, the Institute of Medical Science, the University of Tokyo, and Teikyo University.

- The UoA implemented the 3-year “University of Aizu Robot Valley Promotion Project”, established a dedicated research team, and promoted relevant research and development in collaboration with companies within the prefecture. These efforts have borne fruit. The project received high praise from the prefecture and it was approved to be continued after FY2018.
 - a) Robot development (5 robots)
 - b) Software library (121 components)
- As part of the “Regional Innovation Strategy Support Program” adopted in 2012, the UoA engaged in development of smart-grid information infrastructure that realizes a sustainable recycling-based society.
- The UoA promoted patenting Research Seeds at the University-Business Innovation Center by, among other things, providing faculty members with consultations on intellectual property.

(JCD)

- The JCD promoted projects reflecting regional characteristics through collaborations with local institutional partners (industry-government-academia). It also established the “Local Practical Research Project” in 2015 and promoted research and educational activities where university proactively made connections with communities.
 - a) Let’s Cheer up Ourselves with Delicious “Food” from Fukushima Project
 - b) Fukushima prefectural project “Revitalization of Rural Communities with University Students”
 - c) Aizu Machinaka Art Project
 - d) Support to Green Tourism Projects
 - e) Aggregation and Analysis of the Results of the Eating Behavior Survey

(3) Measures Taken to Achieve Regional Contribution Goals

[Evaluation] We recognize that “II: The Mid-term Plan Was Largely Carried Out.”

[Praise-worthy Initiatives in Mid-term Goal Period: ○ (Issues Requiring Work, etc.: Δ)]

(UoA)

- Faculty members provided public lectures, off-campus lectures, and remote classes.
 - 2012: Public lectures: 29, off-campus lectures: 19, remote classes: 23
 - 2013: Public lectures: 25, off-campus lectures: 18, remote classes: 22
 - 2014: Public lectures: 21, off-campus lectures: 18, remote classes: 26
 - 2015: Public lectures: 12, off-campus lectures: 15, remote classes: 35
 - 2016: Public lectures: 25, off-campus lectures: 73, remote classes: 37
 - 2017: Public lectures: 23, off-campus lectures: 50, remote classes: 35

- Based on a high school-university partnership agreement with the Prefectural Aizu Gakuho Senior High School (comprehensive junior and senior high school), the UoA dispatched faculty members to the school and provided “spot lectures” on math and English, and conducted educational guidance to prepare students for overseas study programs.
- The UoA contributed to skill improvement of high school students and development of IT experts by holding “PC Koshien” every year. Around 1,800 high school students, etc. participated in the competition each year and had a record-breaking 2,010 participants in FY2014.
- The UoA, among other things, dispatched faculty members to Super Science High Schools such as Fukushima High School, Iwaki High School, Aizu High School, Aizu Gakuho Senior High School, and Yonezawa Kojokan High school.
- The number of UoA-launched-certified ventures reached targeted 18 in FY2016.
- The UoA held Aizu Open Innovation (AOI) meetings at LICTiA – a hub established to create innovation - and increased the number of meetings each year and promoted collaborative initiatives with UoA-launched ventures, etc.
- The UoA engaged in initiatives to transfer technology to companies, etc. by, among other things, holding presentation meetings to introduce the Research Seeds, presenting at technical exhibitions, and distributing the UoA Seeds Collection to private sectors including financial institutions, government agencies and other entities.

(JCD)

- Faculty members provided public lectures and off-campus lectures.
 2012: Public lectures: 4, off-campus lectures: 154
 2013: Public lectures: 4, off-campus lectures: 150
 2014: Public lectures: 5, off-campus lectures: 133
 2015: Public lectures: 4, off-campus lectures: 174
 2016: Public lectures: 4, off-campus lectures: 159
 2017: Public lectures: 5, off-campus lectures: 146
- The JCD opened the library, athletic field, etc. to the public. It also, among other things, opened the gymnasium and athletic field to Okuma Town Junior High School for classes and club activities and issued library cards to all the students of the school in order to help improving their educational environment.

(4) Measures Taken to Achieve International Exchange Goals

[Evaluation] We recognize that “II: The Mid-term Plan Was Thoroughly Carried Out.”

[Praise-worthy Initiatives in Mid-term Goal Period: ○ (Issues Requiring Work, etc.: △)]

(UoA)

- Having been selected for the Top Global University Project in 2014, the UoA established the Center for Globalization, engaged in the globalization of the university, and conducted university-wide international exchange activities.
- The UoA proactively conducted international exchange activities led by the Center for Globalization. As a result, it concluded partnership agreements with 80 overseas universities and research institutes in 20 countries in total. It also strove to deepen exchanges through various exchange activities with overseas universities such as establishing joint laboratories, concluding memorandums on dual degree programs (*2) and international credit transfers with overseas universities.
- The UoA dispatched and accepted students for short/mid-term training programs with partner universities such as Rose-Hulman Institute of Technology and Neusoft Institute of Information. It also introduced the 2 year (in partner university) + 2 year (in UoA) Undergraduate Program, etc. with the latter in FY2015 to establish a system to accept international students.
- Faculty liaisons and members of the advisory board for each region led international exchanges with overseas universities, etc.
- The UoA created an environment that helps students more easily study abroad by introducing an intensive English course “Global Experience Gateway” in FY2014 and in order to give credit for short-term study programs and the associates classes taken before and after the program.

(JCD)

- The JCD reviewed the details of the plans for international exchanges each year and continuously worked on various exchanges that include:
 - *Conducting exchanges via Skype with Thai-Nichi Institute of Technology in Thailand in FY2013 and FY2014
 - *Accepting 2 international students from Brazil who came to Japan through the Fukushima Prefectural Latin American Students Acceptance Program (Specialized Fields) at the Management Course in the Department of Management and Design
 - *Participating in and cooperating with “Young Americans in Okuma Town Junior High School”

*Conducting a revitalization project “Little Yellow Letter Project – Connecting Fukushima, Aichi, and the Ukraine – ” in FY2017, with the Department of Early Childhood Education playing as a central role.

2 Measures Taken to Achieve Revitalization Support Goals Following the Great East Japan Earthquake, Etc.

[Evaluation] We recognize that “II: The Mid-term Plan Was Largely Carried Out.”

(1) Measures Taken to Achieve Revitalization Support Goals

[Evaluation] We recognize that “II: The Mid-term Plan Was Largely Carried Out.”

[Praise-worthy Initiatives in Mid-term Goal Period: ○(Issues Requiring Work, etc.: Δ)]

(UoA)

- The UoA established the Laboratory for leading-edge ICT in Aizu (LICTiA) in October 2015 as a core facility of Revitalization Center where the university promoted research on post-disaster reconstruction and regional revitalization and developed experts to work on regional issues by using practical methods and utilizing prefecture-subsidized projects.

(JCD)

- As part of revitalization support projects, student volunteers provided study support to evacuees from Okuma Town at the meeting area in their temporary housing. The JCD also provided “Kids College” to primary/junior high school students who had evacuated to Aizu region and to their parents, etc.
- The JCD strove to develop students capable of solving revitalization issues by making them work on GT research themes that can help solving those issues and by introducing measuring radiation in food in the exercises.

(2) Measures Taken to Achieve ICT-Utilization Goals Regarding Revitalization Support

[Evaluation] We recognize that “II: The Mid-term Plan Was Largely Carried Out.”

[Praise-worthy Initiatives in Mid-term Goal Period: ○(Issues Requiring Work, etc.: Δ)]

(UoA)

- The UoA established “the University of Aizu Revitalization Center” as a

hub for conducting and commercializing the research on advanced ICT in collaboration with the associated industries within and outside the prefecture and effectively promoting industrial revitalization in the prefecture.

- The UoA provided technical support on system development and security measures for data management of prefectural citizen health survey organized by Fukushima Medical University, etc., utilizing its specialty as an ICT university.
- The UoA conducted revitalization-related university-industry research utilizing ICT on M2M networks, big data analysis, information security, and energy management systems through METI-subsidized projects.
- The UoA participated along with NICT, NTT group companies, and Tohoku University in the research and development of technologies to distribute disaster information such as “distribution of disaster information utilizing various broadcasting and communication media”, “automated generation of disaster information content accessible to the information poor, etc.”, and “ensuring communications between disaster-affected areas and disaster countermeasures headquarters, etc.”

(3) Measures Taken to Achieve Revitalization Support Collaboration and Cooperation Goals

[Evaluation] We recognize that “II: The Mid-term Plan Was Largely Carried Out.”

[Praise-worthy Initiatives in Mid-term Goal Period: ○(Issues Requiring Work, etc.: Δ)]

(UoA)

- Regarding the prefectural citizen health survey organized by Fukushima Medical University, etc., the UoA participated in the survey data management review committee/study groups and provided support on system development and security measures regarding risk management by utilizing the knowledge of the university specializing computer science and engineering.
- The UoA signed a memorandum on cybersecurity with the Fukushima Prefectural Police Headquarters in FY2015 and provided technical support regarding security by, among other things, sharing information related to cybercrime, and sending lecturers to training sessions.
- The UoA contributed to regional revitalization through industrial and talent development by concluding a partnership agreement with Koriyama City in 2016 and with Shirakawa City in 2017 respectively in addition to the existing partnerships with Aizu-Wakamatsu City, Kitakata City, and the Okuma Town Board of Education.
- The UoA concluded a partnership agreement with AIST regarding the

promotion of, among other things, joint research on renewable energy.

(JCD)

- The JCD promoted collaborative projects with Aizu Regional Development Bureau, Minami Aizu Regional Development Bureau, and Aizu-wakamatsu City as part of research to support revitalization utilizing competitive research funds (revitalization category).
- Based on the educational collaboration agreement with the Okuma Town Board of Education, the JCD provided educational support to primary/junior high school students from Okuma Town together with the UoA.

3 Measures Taken to Achieve Goals Related to Improving and Streamlining Administrative Operation

[Evaluation] We recognize that “II: The Mid-term Plan Was Largely Carried Out.”

(1) Measures Taken to Achieve Goals Related to Improving and Streamlining Business Operations

[Evaluation] We recognize that “II: The Mid-term Plan Was Largely Carried Out.”

[Praise-worthy Initiatives in Mid-term Goal Period: ○ (Issues Requiring Work, etc.: △)]

(UoA)

- The UoA conducted hiring in a systematic manner based on the hiring policy of the corporation and 27 of 71 administrative staff members became corporate employees by the end of the last fiscal year of the mid-term goal period. It also strove to improve English skill of the employees by providing English lessons since FY2014.
- Based on an open recruitment policy, the UoA strove to secure quality faculty members by employing them through international open recruitment.
As for the tenure-track system, the university utilized it appropriately by conducting qualification examination of tenure-track faculty members based on the designated standards.
- The UoA aimed at streamlining the operation of meetings by, among other things, jointly conducting Deans and Directors Councils and Education and Research Councils depending on the attendance level. It also strove to reduce paperwork by shifting meetings to paperless utilizing iPads since FY2014.

(JCD)

- The UoA strove to streamline administrative operations by conducting e-mail based Faculty Assemblies, etc. and promoting information sharing and paperless-day-to-day operations utilizing internal web portals.

(2) Measures Taken to Achieve Goals Related to Improving Financial Composition

[Evaluation] We recognize that “II: The Mid-term Plan Was Largely Carried Out.”

[Praise-worthy Initiatives in Mid-term Goal Period: ○ (Issues Requiring Work, etc.: Δ)]

(UoA)

- The UoA provided faculty members with information regarding invitational external funds in a timely manner and promoted the support associated with the applications by, among other things, helping them preparing the application documents. As a result, the number of applications for invitational external funds exceeded the numerical target (50 applications or more per year).
- The UoA made efforts to build awareness for energy/resource saving by, among other things, indicating concrete action items based on its environmental policies at the beginning of each fiscal year and disseminating the results of survey/analysis on quarterly energy use and priority action items.
- The UoA strove to reduce usage of power, etc. by, among other things, comprehending actual operating conditions through constant monitoring of facility equipment such as air-conditioning systems, meticulous operation of the systems and adjustment of the set values.

(JCD)

- The entire JCD worked on power-saving initiatives by creating annual action plans for power saving and participating in Fukushima Protocol-based projects. It also promoted “visualization” of power-saving status by, among other things, regularly delivering “Power-saving News” and displaying charts indicating the status of power saving to raise internal energy-awareness. Further, it introduced energy-efficient equipment upon the updates of computer systems and air conditioning units. With these efforts, it greatly surpassed the target for power saving and CO2 emission reduction.
- The JCD provided faculty members with information regarding invitational external funds in a timely manner and supported their applications by holding information sessions regarding grants-in-aid for scientific research.

(3) Measures Taken to Achieve Self-Inspection/Evaluation and Information Disclosure Goals.

[Evaluation] We recognize that “II: The Mid-term Goal Plan Was Largely Carried Out.”

[Praise-worthy Initiatives in Mid-term Goal Period: ○ (Issues Requiring Work, etc.: Δ)]

(UoA)

- The UoA internally announced the construction and operation of the UoA Academic Repository (a data storage space) at the Faculty Assembly, etc. and launched the system in July 2014. Since then, it has disseminated information such as doctoral dissertations, CCRS Annual Reports, etc. by registering them to the repository system.

(JCD)

- The JCD encouraged faculty members to review class formats, teaching methods, grading criteria, and achievement standards by conducting students class evaluations, notifying faculty members of the results, and seeking their responses in the form of improvement plans, etc.
- The JCD widely publicized what was happening on campus by posting the summaries of the results of students class evaluations, achievements of faculty members such as awards obtained in competitions, etc. and research outcomes, GT research and graduation products, implementation status of off-campus lectures, etc. on its website.

(4) Measures Taken to Achieve Other Business Operation Goals

[Evaluation] We recognize that “II: The Mid-term Plan Was Largely Carried Out.”

Further Actions Are Required to Improve Health Checkup Participation Rates of Students

[Praise-worthy Initiatives in Mid-term Goal Period: ○ (Issues Requiring Work, etc.: Δ)]

(UoA)

- The UoA strove to ensure compliance by informing all faculty and staff members of the Code of Conduct at the beginning of each fiscal year and raising awareness of new employees about the code as appropriate through, among other things, distribution of associated documents to individuals and conducting training sessions.
- Regarding the repair, maintenance, and management of facilities and equipment, the UoA strove to improve them by conducting repair work in a planned and efficient manner based on the annual plans (facility repair plans) which reflect the long-term maintenance plans as well as the results

of statutory/periodic inspections.

- Based on its environmental policies and goals, the UoA engaged in energy/resource-saving initiatives such as reducing waste by segregating rubbish, controlling use of paper by ensuring two-sided printing, etc., and saving water by utilizing recycled water. As a result, it achieved the average CO₂ emission from FY2012 through FY2017 of 82.5% compared to the target of 94.9%.
- Regarding the administration and operation of internal network systems, the UoA ensured the safety of the internal network systems in a planned manner and strove to improve the security measures. It introduced a next-generation firewall in FY2014, set up the details of communication controls in a phased manner in FY2015, and dealt with security threats, etc. through unauthorized internal/wireless, etc. access and infected devices unnoticed by the users in FY2016.
- The UoA conducted fire and disaster drills utilizing the “Campus Broadcasting System for Earthquake Early Warning System” for all students, faculty and staff members each year, posted the “Earthquake Early Warning Response Manual” on its website, and displayed a summary of the response manual in each lecture room and office. With these efforts, the university strove to disseminate the information.
- The UoA worked on computer network system updates and software development needed to improve the ICT environment in a timely manner by researching and reviewing what is a desirable ICT environment as an infrastructure for university operation based on the latest information technologies.
- △ The UoA proactively worked on awareness-building efforts to make all students undergo periodic health checkups through e-mails and meetings. However, the average participation for the 6 years remained at 78.4%. Further actions need to be taken to improve the situation.

(JCD)

- The JCD strove to ensure compliance by sharing the Code of Conduct at the Faculty Assembly and raising awareness about the strict observance of office regulations as appropriate.
- The JCD made an effort to create an environment which helps local residents easily evacuate by, among other things, inspecting the designated evacuation areas such as athletic fields and green areas and conducting maintenance such as weeding and mowing.
- The JCD created an environment more convenient to students by, among other things, facilitating wireless network systems that can cover much of the campus and introducing and operating Gmail (an email service system provided by a company) for external email system.

***1: Office Hours**

Designated period of time when faculty members are available at their laboratories, etc. to correspond to students for course consultations, answering their class-related questions, etc.

***2: Dual Degree Program**

A program that allows students to acquire master's degrees from both the UoA and its partner university, on the basis of credit transfer.