

WIPO Regional Workshop in Jakarta



Institutional Arrangement for IP Education and Training in Korea

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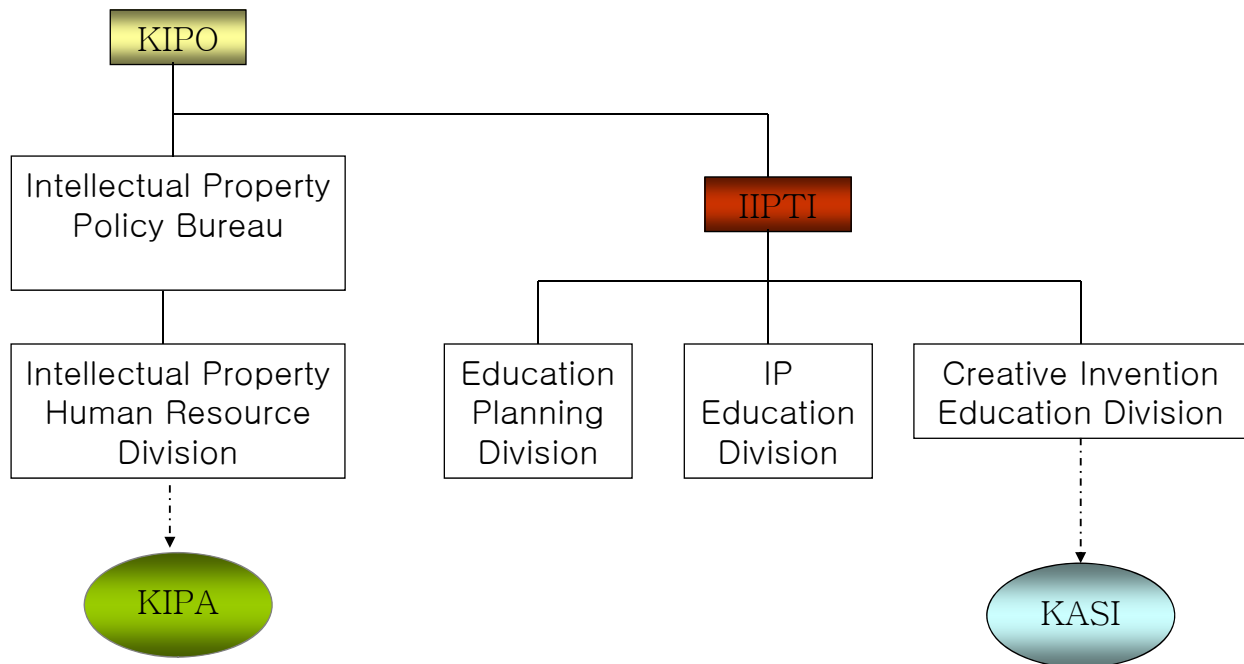
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The outline of IP education system



The outline of IP education system

• Work-sharing

IIPTI

- Education and Training
 - KIPO STAFF
 - New Patent Examiner
 - Government Officials
 - Researchers
 - Invention Education
 - Foreigner
- Others
 - Set up Invention Education plan
 - Supervise KASI and KIPA

KIPA

- Training the Human Resources
 - Operating on-line IP Academy
 - Training for civilians
 - Training for students & universities
- Invention promotion activities
- Support for the Commercialization of Patent Technology

KASI

- Creativity & Invention Education
 - From Elementary school to High school
- Others
 - Korea Student Creativity Olympiad
 - Korea Cyber Invention Education
 - Teachers research Contest of Creativity Education
 - Invention Education Material Development



The outline of IP education system

- KIPO(Korea Intellectual Property Office)
 - KIPO is the major governmental authority in charge of intellectual property matters
 - KIPO's mission is to help Korea became an advanced country, by providing legal and institutional administration with regard to the creation and utilization of highly creative , value-added intellectual property and by promoting technological innovation and industrial development



The outline of IP education system

- KIPO endeavors to foster experts and human resources in the field of intellectual property and to disseminate patent information
- KIPO supports the budget of affiliated organization such as Korea Invention Promotion Association (KIPA) and Korea Association for School Invention (KASI)
- And directs the KIPA and KASI



The outline of IP education system

- IIPTI(International Intellectual property Training Institute)
 - A sub-organization of the KIPO founded in 1987, responsible for IP education in Korea
 - Training for KIPO staff, researchers and students, IP-related officials of developing country, Invention Education
- KIPA(Korea Invention Promotion Association)
 - Established as non-profit association



The outline of IP education system

- The KIPA is an organization specialized in promoting nation's intellectual property rights and commercialization for patent technology under Article 5 of the Invention Promotion Act
- KASI(Korea Association for School Invention)
 - Established as non-profit association in 1992
 - It has 16 branch centers nationwide
 - Striving for the development of creative and imaginative students



About IIPTI

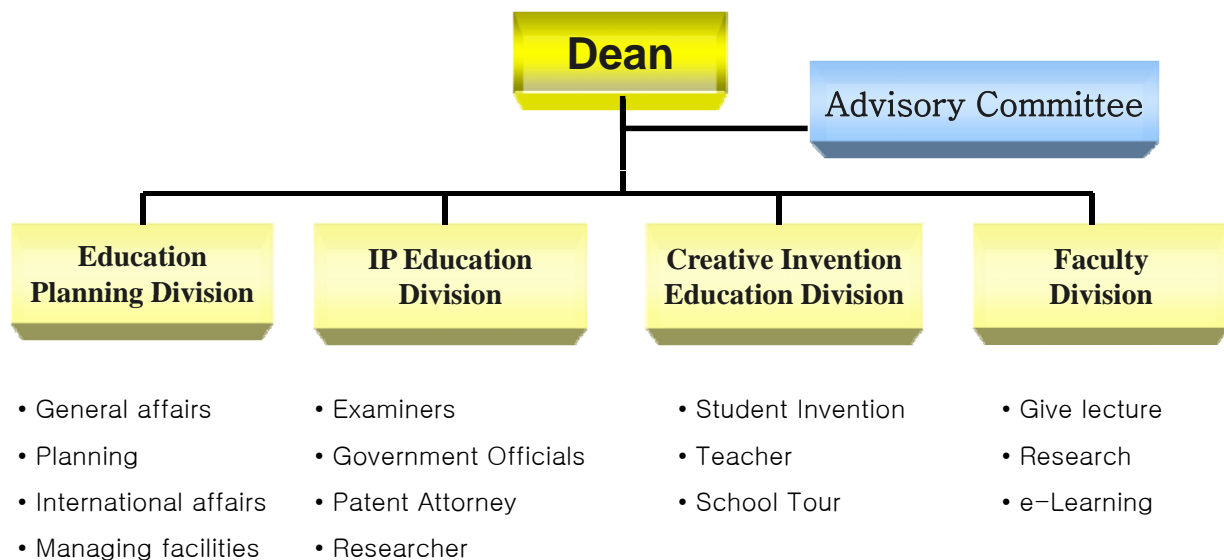
- History

- 1987, Launched its function in Seoul as a sub-organization of KIPO under the name International Patent Training Center
- 1991, Relocated to Daejeon Science Town in Daejeon
- 2004, Renamed as the International Intellectual Property Training Institute
- 2005, Built the Invention Education Center
- 2006, Designated as WIPO Partner IP Training Institute



About IIPTI

- Organization





About IIPTI

- Primary function
 - Offer special training courses to help KIPO staff achieve a top-class standard of patent administration
 - Develop the expertise of IPR experts in the private through training courses tailored to meet their needs and the needs of their customers
 - Introduce a system of grooming invention geniuses with the help of experienced IP specialists and the systemization of invention education



About IIPTI

- Provide substantial education for international participants and consolidate international cooperation
- Facilitate e-Learning and expand the e-Learning system



About IIPTI

- Main training programs
 - IP education for government officials
 - IP education for private sector
 - New Patent Attorneys
 - Invention education
 - International education
 - E-learning education



About KIPA

- Establishment
 - Originally founded in 1973 as association
 - Re-established by Government in 1994 under the law of Invention Promotion Act
 - KIPA is non-profit organization and has been striving for the promotion of invention and Intellectual Property
- Purpose
 - To promote invention and innovative activities in Korea
 - To protect and support inventors
 - To optimize the human resources



About KIPA

- Key biz
 - Foundation for invention promotion
 - Holds and promotes exhibits and events such as invention day ceremonies, Korea Patents Technology Exhibition, and other job-related invention competitions
 - Support for the commercialization of patent technology
 - Provides financial support such as loans for pilot product manufacturing and technology transfer.



About KIPA

- Also operates a regular market for patented technologies, disseminates information on patented technologies, manages an e-marketplace, and promotes the transfer and use of technologies
- Training the human resources on IP
 - Offers free education through the international online cyber academy, conducts training courses on intellectual property rights, broadens the national base of intellectual property rights such as offering free education on electronic patent applications



About KIPA

- Invention Protection Activities of Universities
 - Intro
 - Consists of a general training course, private license course, overseas training course, seminar course, commissioned group education course, and tour training support.
 - Summary
 - Its desire to develop educational systems and courses designed to accommodate the diverse needs of students has produced a student-oriented school affairs management that makes use of student-oriented educational techniques featuring recreation-oriented education



About KIPA

- Operates training programs based on the analysis of students' learning trends and levels, and offers quality educational services to foster talented people on the finer points of intellectual property rights
- Educational areas
 - Short-term ordinary courses to foster experts on intellectual property rights (basic patent course, improved patent course, patent specialist course, and special course)



About KIPA

- group education commissioned by corporations (patent–mind enhancement course for corporate executives)
- course on overseas intellectual property rights survey and research groups
- field experience course with firms equipped with superior intellectual property rights and workshops
- private license course
- seminars with local and foreign experts on intellectual property rights



About KIPA

- Intellectual Property Creation Promotion Project
 - Operates a center to help resolve members' problems, operates working committees according to business categories, conducts tour–the–nation presentations, analyzes and provides data on intellectual property–related concerns, provides customer care services to members, and contributes in providing an intellectual atmosphere that further encourages invention and creativity



About KIPA

- Operation and Management of Korea Intellectual Property Research Center[KIPRC]
 - Placing all the intellectual property infrastructure under one roof makes invention and patent services more convenient for the public



About KASI

- Establishment
 - The Korean Association for School Invention (KASI) was established in 1990 as a cooperate body of the KIPO for the purpose of the development of creative and imaginative students
 - The purpose of establishment is to help and promote the invention education of students, especially, elementary school, middle school and high school



About KASI

- Main function
 - KASI currently established 189 Creativity & Invention Edu-centers nationwide and provide them with various forms of support
 - Such as the hosting of various annual events, invention training seminars, parent education, Teachers Research Contest of Creativity & Invention Education, Korea Students Creativity Olympiad, Korean Elementary Contest for DI Global Finals, etc



About KASI

- Major Business
 - Creativity instructor training
 - Nationwide Creativity Edu-Center Association workshop
 - Overseas training for Creativity Education Administrator
 - 60 hour practical training for creativity education administrator
 - Nationwide teachers research contest of creativity education



About KASI

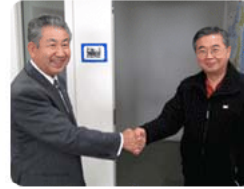
▶ Overseas Training for Creativity Education Administrator



Japan training in 2006



Japan training in 2007



Training01

▶ Overseas training for Creativity Education Administrator



Training02



Training03



About KASI

– Korean Student Creativity Olympiad

- Objectives

- Tackle new problems by developing the problem-solving skills demonstrated through thinking, originality, and observation
- Foster the development of leaders who are creative, innovative, cooperative, moral, and confident to be successful in our 21st century knowledge-information society



About KASI

- Organizing Bodies
 - host : KIPO, Samsung Electronics
 - Supervisor : KASI
 - Sponsors : Ministry of Education & Human Resource Development, Ministry of Knowledge Economy, KIPA, The Korean Youth Invention Club

• Korea student Creativity Olympiad Participation



Exercise01



Exercise02



Exercise03



About KASI

– Imaginary Picture and Character Drawing

- Objectives
 - Foster the dreams for invention and activate creativity education through allowing freely creativity expression activities for growing adolescents
 - Based on the unlimited imagination of students, develop an everyday awareness for invention and increase interest and skills for 21st century high value industries, such as the design industry



About KASI

- Organizing bodies
 - Host : KIPO
 - Supervisor : KASI
 - Sponsors : MKE, KIPA, The Korean Youth Invention Club, Science Information Newspaper

📍 Nationwide Students Imaginary picture contest students character contest students design contests Participation



Imaginary Picture



Character



Design



About KASI

- Creativity & Invention Edu- Centers
 - 189 Creativity & Invention Edu-centers opened nationwide
 - Development of invention education curriculum, support for instructional materials
 - Operation-Evaluation of Creativity & Invention Edu-Center education encouragement
 - Operational funding & support for modernizing Creativity & Invention Edu-Centers

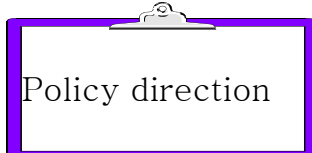


Future Creative Entrepreneur Project

- Vision & Direction



Creation of sustainable growth through nurturing the next generation of IP-gifted entrepreneurs



Build a support system to find the IP-gifted children early and nurture them IP-based entrepreneurs



- Background

- IP determine the market value of the company and nation
- The bringing up of gifted children early is a key element of national competitiveness



Future Creative Entrepreneur Project

- The Progress of this Project

- Comments hunting for promotion orientation and consensus
 - Explained the policy direction to various experts and asked their opinions over 10 times
- Agreed to jointly promote this project with major engineering universities
 - February 2009, MOU with KAIST & POSTECH
 - September 2009, Established and designated the Creative Entrepreneur Institute
- Organized Advisory Board and Planning Office with KAST (Korean Academy of Science and Technology)
 - Made concrete plans for this project through 4 times Planning Office meeting and workshop



Future Creative Entrepreneur Project

- Target of Selection
 - From Elementary 4th grade students to High school Students who begin to show the characteristics of gifted
- Annual Training Capacity
 - KAIST
 - Middle School Students(51), High School Students(50)
 - POSTECH
 - Middle School Students(40), High School Students(40)



Future Creative Entrepreneur Project

- Model of Selection

	First step	Second step	Third step
Selection Type	Screening of papers	Academic aptitude examination	Performing camp observations
Selection Method	Teacher's recommendation Portfolio Math/Science achievement	Personality test Aptitude Test Essay	Performing Camp Personal/Group interview
Selection Limit	5 multiples of the quota	3 multiples of the quota	A quota



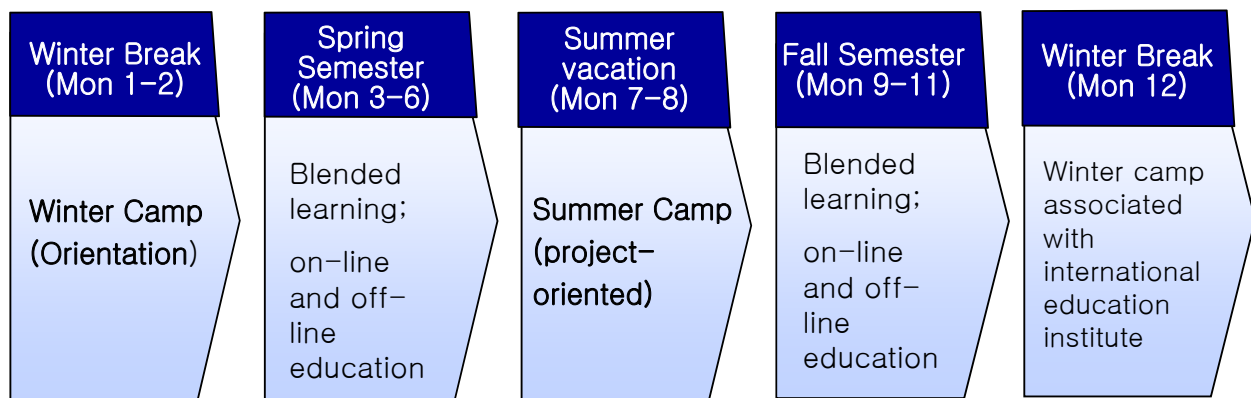
Future Creative Entrepreneur Project

- Training system
 - Education Direction
 - Intensive training to understand the basic principles and to uncover applications
 - Project-oriented education to implement the ideas
 - Moral education to cultivate a spirit of challenge, leadership and enterprise ethics
 - Optional Education Program considering the level of students' development and needs
 - Focus on fostering Brainware who can integrate Humanities, Arts, Science and Engineering



Future Creative Entrepreneur Project

- Standard Model
 - On-line education and Off-line education During semester
 - Project-oriented education during vacation





Future Creative Entrepreneur Project

- Personal Care Unit (PCU)
 - Objective
 - Provides individual management for the elite to support a balanced development
 - Support organic growth system in conjunction with the education institute
 - Members
 - Educational Psychologist, Gifted Education Specialist, Professional counselors, etc
 - Role
 - Evaluation of development and management of students' career
 - Provide personalized counseling by professional counselors
 - Educational consulting for parents and teachers



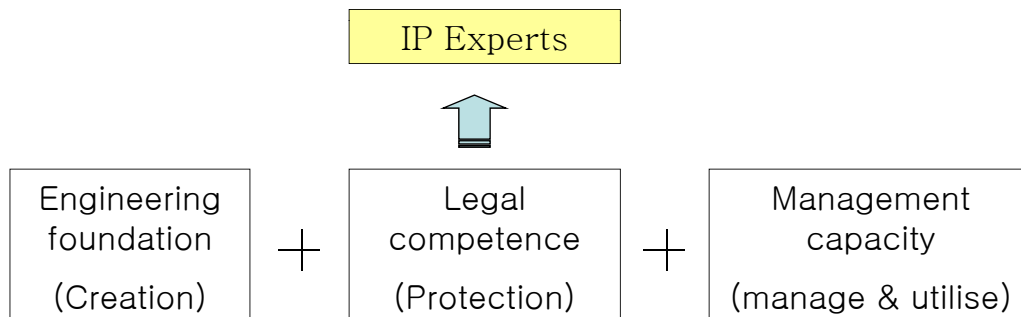
IP Professional Degree Course

- Necessity(Background)
 - IP experts emerged as key assets of enterprise according to serious IP competition among businesses
 - IP professional human resources need for responding to increasing IP litigations
 - But, there is no program to nurture IP experts in universities
 - It is time to make systematic degree programs to foster IP experts



IP Professional Degree Course

- The model of IP experts



- Operating plan
 - Target for business IP professionals and lawyers



IP Professional Degree Course

- About 30~40 trainees will be selected
- Training about international IP litigation and IPR acquisition business
- This is Pilot project, so we picked out 2 universities, KAIST and Hong-Ik Uni.
- KIPO will support the 60% of the total budget, about \$ 2,000,000
- KIPO bear the expense of program operating
- After evaluate the performance and reflect the result on the budget of next year



IP Professional Degree Course

[Curriculum]

Engineering	Law	Administration
Technology Acquisition Strategy, Introduction to Engineering, New Technology, High-tech Industries, Introduction to advanced technologies(IT, BT), The latest technology trends seminar	Domestic IP Litigation Practice Cases, Foreign IP Litigation Practice Cases, IP-related International law practice,	Company's IP Strategy, Technology Transfer·Alliance strategy, IP License Strategy, Negotiating IP strategy, IPR Assets Valuation

