

	International Medical Competency Testing for Junior Students (IMCT-JS)	
	Document	Information
	Type:	Document ID: IMCT-JS 2025-INFO
		Prepared by: Assessment and Evaluation Office
Subject: International Medical Competency Testing for Junior Students : IMCT-JS		Version: v.1 Page : 1 of 10 Issue Date: April 11, 2025

International Medical Competency Testing for Junior Students : IMCT-JS 2025

09:00 AM – 5:00 PM (KST), 27 June 2025 | COEX Convention Center, Seoul, South Korea

Competitions

1. **Junior Three Minute Thesis (J3MT):** An academic competition challenging students to present their research in a clear, concise, and engaging manner within three minutes using one static slide.
2. **International Medical Competency Testing for Junior Students : IMCT-JS 2025**

For the IMCT-JS, each section of the exam is scored separately and competes in its own section (paper-based test, J3MT, and topic presentation). Participants need to join at least one part of the testing. If a representative enters all three parts, they will receive a certificate of completion for this competency testing.

Event Details:

- **Date & Time :** 09:00 AM – 5:00 PM, 27 June, 2025 (KST)
- **Location:** COEX Convention Center, Seoul, South Korea

An awards ceremony will be held, and certificates will be given to all participants.

Awards Ceremony: Certificates and awards will be given to all participants, including special awards for top performers in each section.



Certificate Ceremony:

- **Top 10 Rankings Overall Highest Score Award:** Awarded to the participant with the highest overall score in the IMCT-JS2025 assessments.
 - **Gold Medal:** Awarded to the participant with the highest overall score.
 - **Silver Medals:** Awarded to the participants with the second and third highest overall scores.
 - **Bronze Medals:** Awarded to the participants with the fourth and fifth highest overall scores.
 - **Certificates of Achievement:** Awarded to the participants with the sixth to tenth highest overall scores.
- **3MT (Three Minute Thesis) Presentation Award:** Awarded to the participant who delivers the most effective and engaging 3MT presentation.



International Medical Competency Testing for Junior Students (IMCT-JS2025)

TechEd Assessment Testing Office

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Welcome to International Medical Competency Testing for Junior Students (IMCT-JS) 2025

We are pleased to announce the upcoming session of the IMCT-JS2025 designed to evaluate and enhance the Medical Science knowledge, skills, and abilities of junior students. This testing initiative is part of our ongoing commitment to academic excellence and professional development in the Medical Science field.

Assessment Overview: The IMCT-JS employs the Knowledge, Skills, and Abilities (KSA) framework, a comprehensive model recognized for its effectiveness in identifying essential competencies in Medical Science education and practice. Our approach ensures that participants are not only tested for their current knowledge but are also prepared for future challenges in Medical Science careers.

Please note: This document contains essential information about the test structure, assessment criteria, and scheduling. Detailed descriptions of each test section and preparation guidelines are provided in subsequent pages.

We are delighted to announce an International Medical Competency Testing for Junior Students (IMCT-JS) that aims to explore the role of the Knowledge, Skills, and Abilities (KSA) model in enhancing assessment and talent management in academia. The KSA model is a widely recognized framework utilized in human resources and job analysis that aims to identify the critical competencies, skills, and knowledge required for a specific role. While extensively applied in industry, its potential in academia remains underexplored.

As an educational field, our primary objective is to equip our students with the knowledge, skills, and competencies that enable them to excel in their academic pursuits and future careers. However, identifying and defining these critical competencies can be a complex and arduous task. The KSA model provides a comprehensive and systematic approach to identifying these competencies, making it an invaluable tool for educators seeking to enhance student learning and development.

Similarly, in the Medical Science field, it is imperative that practitioners possess the necessary competencies, skills, and knowledge to provide quality patient care and succeed in their careers. The KSA model, as a comprehensive and systematic approach, enables Medical Science educators and practitioners to identify and define these critical competencies.

By aligning curricular content and learning outcomes with the KSA model, Medical Science educators can ensure that students and practitioners develop the essential competencies, skills, and knowledge to provide quality patient care. This systematic approach can also be used to design effective assessments that evaluate learners' proficiency in these critical areas, leading to better student outcomes and more successful practitioners.

In the context of education, the KSA model can be utilized to identify the competencies, skills, and knowledge that students need to acquire to succeed in their academic pursuits and careers. By aligning

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curricular content and learning outcomes with the KSA model, educators can ensure that students develop the necessary competencies, skills, and knowledge to succeed in their future professions. Furthermore, the KSA model can also be employed in faculty recruitment and selection processes to ensure that educators possess the required competencies, skills, and knowledge to effectively teach and mentor students.

Overall, the KSA model offers a systematic approach to identifying the critical competencies, skills, and knowledge required for success in various fields, including academia and the Medical Science profession. Its application in these areas can significantly enhance assessment and talent management, leading to better student outcomes and more successful practitioners.



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KSA MODEL

The KSA model is a well-established framework utilized in job analysis to delineate the essential competencies, skills, and knowledge requisite for a particular role. In the realm of Medical Science practice and education, the KSA model holds significant value as it helps to identify the key competencies, skills, and knowledge that Medical Science students and practitioners need to acquire to achieve excellence in their profession.

K – KNOWLEDGE

The knowledge component of the KSA model refers to the factual and procedural information required for effective performance in a specific domain. In the Medical Science field, this includes knowledge of physics, chemistry, biology, mathematics, and Medical Science ethics. Medical Science professionals must possess a strong foundation of knowledge to diagnose and treat patients effectively.

S – SKILLS

The skills component of the KSA model refers to the ability to apply knowledge and basic skills in the Medical Science field. Such as critical thinking, problem-solving, decision-making, and communicating effectively with patients and other Medical Science professionals. These skills are essential for providing high-quality patient care.

A – ATTITUDE

The attitude component of the KSA model refers to the underlying traits or aptitudes required for successful performance, such as the ability to work well under pressure, to demonstrate empathy and compassion towards patients, and to be willing to learn and adapt to new situations. A positive attitude and a willingness to collaborate with others are essential for providing effective patient care.

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ASSESSMENT CRITERIA

Competitions

1. **Junior Three Minute Thesis (J3MT):** An academic competition challenging students to present their research in a clear, concise, and engaging manner within three minutes using one static slide.
2. **International Medical Competency Testing for Junior Students : IMCT-JS 2025**

Junior Three Minute Thesis (J3MT)

Present : 3 Minute | Q&A : – minute

27 June 2025 (KST)

The Three Minute Thesis (3MT) is an academic competition that challenges graduate students to present their research in a clear, concise, and engaging manner, using only three minutes and one static slide. The competition was developed in 2008 by the University of Queensland, and has since become a global phenomenon, with thousands of participants from over 600 universities across more than 65 countries.

The competition requires participants to distill research into a short, engaging presentation that is accessible to a general audience. Participants must be able to clearly articulate the problem they are addressing, explain the significance of their research, and communicate their findings in a way that is both engaging and informative.

Competition Rules

1. **Presentation Duration:** Each participant has 3 minutes to present their chosen thesis.
2. **Topic Selection:** Participants are to present a thesis or research project that they admire or find inspiring from another researcher or academic.
3. **Visual Aid:** No slides or visual aids are permitted.
4. **Props:** No additional props (including pointers, musical instruments, laboratory equipment) are permitted.
5. **Speech:** Presentations are to be spoken word (e.g., no poems, raps, or songs).
6. **Quotations:** A maximum of one quote or short reference can be used.
7. **Language:** Presentations must be given in English.
8. **Original Work:** The presentation must be the original work of the participant in terms of preparation and delivery, even though the content is based on another person's research.

Judging Criteria

Participants will be judged on the following criteria:

1. **Comprehension and Content:**
 - Did the presentation help the audience understand the research?
 - Was the significance of the research communicated clearly?
2. **Engagement and Communication:**
 - Was the thesis topic and its significance communicated in language appropriate to a non-specialist audience?
 - Did the presenter capture and maintain the audience's attention?
 - Did the speaker convey enthusiasm for the chosen research?

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Preparation Tips

- **Clarity:** Ensure your presentation is clear and concise. Avoid jargon and explain complex ideas simply.
- **Engagement:** Practice engaging your audience with a compelling narrative.
- **Rehearsal:** Time your presentation to ensure it fits within the 3-minute limit.
- **Knowledge:** Thoroughly understand the chosen research to answer any questions that may arise during or after the presentation.

Preparation for Junior three-minute thesis (J3MT)

1. Select a Medical Science research project of interest, regardless of whether it is the candidate's own research, and ensure that the chosen work is publicly available. (Open access)
2. Oral presentation within a strict time constraint of three minutes.
3. Visual aids, such as images or slides, DECEMBER be employed to complement the oral presentation

International Medical Competency Testing for Junior Students : IMCT-JS 2025

Section A: Paper-based Test (40%)

Part 1: Basic Medical Science Knowledge and Application (20%)

- **Format:** Semi-Objective, English, 15 items, 30 minutes
- **Content:** Fundamental Medical Science concepts and theory across various disciplines.

Part 2: Medical Science Research Review (20%)

- **Format:** Semi-Objective, English, 15 items, 30 minutes
- **Content:** Reading comprehension within the context of Medical Science research.

Section B: Skills and Abilities Test (60%)

Part 1: Medical Science Research Topic Interview & Discussion (30%)

- **Format:** Interview and discussion, 4-5 minutes
- **Content:** Presentation and explanation of a chosen Medical Science research topic.

Part 2: Junior Three Minute Thesis (J3MT) (30%)

- **Format:** Oral presentation, 3 minutes
- **Content:** Concise presentation of a research project using one static slide.

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Section A: Knowledge Paper-based test

(40%)

The paper-based test is comprised of two distinct parts.

20% | Part 1 : Basic Medical Science Knowledge and Application **15 items (5 options : Time 30 minutes)**
27 June 2025 (KST) **(Article-Based MCQs with Reasoning: English)**

on understanding of fundamental Medical Science concepts and Medical Science theory, part 1 cover a diverse range of topics related to the Medical Science field foundational aspects of Medical Science practice, which are critical for effective communication, clinical decision-making, and patient care. The test questions will be designed to evaluate ability to comprehension and apply basic Medical Science concepts.

Article 1 | Exploring medical gas therapy in hemorrhagic stroke treatment: A narrative review

(Link : <https://shorturl.asia/tO4FB>)

Article 2 | Medical applications and prospects of polylactic acid materials

(Link : <https://shorturl.asia/KestJ>)

20% | Part 2 : Medical Science Research Review **15 items (5 options : Time 30 minutes)**
27 June 2025 (KST) **(Article-Based MCQs with Reasoning: English)**

Focus on reading comprehension, specifically within the context of the Medical Science field. Participants will be presented with a research paper on a topic relevant to the Medical Science field and assessed on their ability to comprehend the information contained therein. The selected research paper will be chosen with care, in order to reflect the type of academic and professional literature commonly encountered by Medical Science students and practitioners.

Article 3 | Development of clinical practice guidelines for Korean medicine: Towards evidence-based complementary and alternative medicine

(Link : <https://shorturl.asia/TG1Fu>)

Article 4 | Advances in medical devices using nanomaterials and nanotechnology: Innovation and regulatory science

(Link : <https://shorturl.asia/auCIm>)

Preparing for the Knowledge Paper-based test in the IMCT-JS

1. Reviewing Lessons: Read textbooks and study materials, focusing on key points and fundamental concepts.
2. Practicing Past Papers: Attempt practice tests related to the topics studied to improve answering skills.
3. Studying Medical Science Research: Read research articles related to the field of medicine to enhance understanding of relevant topics.
4. Summarizing Key Points: Summarize and take notes on key Medical Science concepts and important information.
5. Practicing Reading and Answering Questions: Practice reading and understanding questions well to answer them correctly in the exam.
6. Seeking Help: If there are doubts or difficulties, learn from teachers or experts in the field.

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Section B: Skills and abilities test

(60%)

30% | Medical Science Research Topic Interview & Discussion

Interview : 4-5 minute

27 June 2025 (KST)

In the IMCT-JS examination, the exam center will determine the research topics used in the interview and discussion about Medical Science research topics. These topics may be selected from reputable Medical Science research articles or from credible research works in the field of Medical Science research. Candidates will be required to present their research topics and explain the rationale and significance of their chosen topics. There may be additional questions about the research topic to ensure a clear understanding of the candidate's selection and understanding of the research topic. Therefore, preparation for explaining and discussing one's research topic is crucial for the examination.

Use content from academic articles either selected for presentation in the 3MT or from the scope of the Knowledge Paper-based test topics.

To prepare for the Medical Science Research Topic Interview & Discussion in the IMCT-JS, it is crucial to thoroughly review the literature and information related to your research topic. You should be able to clearly and logically present your research topic, explain its rationale and significance, and be prepared to answer additional questions that may arise during the interview. Practice explaining your research topic concisely and clearly within the allocated time. Additionally, anticipate possible questions and scenarios related to your research topic and prepare systematic and coherent responses.

30% | Junior Three Minute Thesis (J3MT)

(30%)

27 June 2025 (KST)

Present : 3 Minute | Q&A : – minute

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Key Schedule

27 June 2025 | COEX Convention Center, Seoul, South Korea

Time	Activity	Location
09.00 - 09.20	20 minutes Preparation and Project Introduction Session	Room 403 COEX Convention Center, Seoul, South Korea
09.20 - 10.20	1 hours International Medical Competency Testing for Junior Students Section A : Knowledge Paper-based test PART 1 : Basic Medical Science knowledge and application (20%) PART 2 : Medical Science research review (20%)	
10.20 - 10.30	10 minutes Break Time	
10.30 - 12.00	1 hours 30 minutes International Medical Competency Testing for Junior Students Section B : Skills and Abilities Test Medical Science Research Topic Interview & Discussion (30%)	
12.00 - 13.00	1 hours Networking Lunch	Room 403 COEX Convention Center, Seoul, South Korea
13.00 - 13.30	30 minutes Opening Ceremony	
13.30 - 15.30	2 hours Junior Three Minute Thesis (J3MT) International Medical Competency Testing for Junior Students	
15.30 - 16.00	30 minutes Break Time	
16.00 - 17.00	1 hours Certificate ceremony ● Top 10 Rankings Overall Highest Score Award: Awarded to the participant with the highest overall score in the IMCT-JS2025 assessments. ● 3MT (Three Minute Thesis) Presentation Award: Awarded to the participant who delivers the most effective and engaging 3MT presentation.	
17.30	Special Dinner FOR JUNIOR STUDENTS	South Korea

