



**JAYPEE UNIVERSITY OF INFORMATION
TECHNOLOGY**
WAKNAGHAT, P.O. – WAKNAGHAT,
TEHSIL – KANDAGHAT, DISTRICT – SOLAN (H.P.)
PIN – 173234 (INDIA) Phone Number- +91-1792-257999
(Established by H.P. State Legislature vide Act No. 14 of 2002)



Event Report

International Expert Lecture on Aerospace Systems, Launch Vehicles and Advanced Composite Technologies

The **Department of Civil Engineering** in association with the **International Collaboration Center (ICC)** at **Jaypee University of Information Technology (JUIT)** successfully organized a **One-Day International Expert Lecture on Aerospace Systems, Launch Vehicles, Spacecraft Technologies and Advanced Composite Materials** on **27 February 2026** at the university campus.

The programme was conceived as part of the university's continued efforts to promote **international academic engagement, interdisciplinary learning, and exposure to emerging global technologies**. The event aimed to familiarize faculty members and research scholars with recent advancements in aerospace engineering and the growing importance of composite materials in modern engineering applications.

The keynote lecture was delivered by **Prof. Changduk Kong**, Distinguished Chair Professor at **Kunsan National University**, Republic of Korea. Prof. Kong is a globally recognized researcher in the field of aerospace structures and composite materials and is widely regarded as one of Korea's senior scholars working in this area. Over the years, he has also served as a visiting professor at several reputed universities in India, thereby contributing significantly to international academic exchange and collaborative research.

The programme commenced with an interaction session in the **Board Room of JUIT**, where senior university leadership including Deans, Heads of Departments, and academic coordinators interacted with Prof. Kong. During this session, Prof. Kong delivered a brief presentation about **Kunsan National University**, highlighting its research facilities, academic strengths, and international collaboration initiatives. The session also served as an important platform to discuss potential areas of cooperation between the two institutions.

As a gesture of appreciation for his distinguished academic contributions and his visit to the university, **Prof. Kong was felicitated by the university leadership during the Board Room session**. The felicitation recognized his remarkable work in the field of aerospace engineering and his efforts in fostering international academic exchange.

Following the interaction session, the **main technical lecture was conducted at the DLC Hall**, where the programme witnessed the participation of **more than 50 attendees**, including faculty members and research scholars from various departments of the university. The lecture attracted participants not only from Civil Engineering but also from other disciplines interested in advanced materials and aerospace technologies.

In his detailed lecture, Prof. Kong presented a comprehensive overview of the **development and evolution of aerospace engineering**, covering topics such as aircraft structural systems, launch vehicle design, spacecraft technologies, and modern aviation platforms. He elaborated on how aerospace



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engineering has evolved through the integration of advanced materials and innovative structural design approaches.

A major focus of the lecture was the **application of advanced composite materials in aerospace engineering**. Prof. Kong explained that composite materials have played a transformative role in modern aircraft and spacecraft design due to their **exceptional strength-to-weight ratio, corrosion resistance, fatigue performance, and structural reliability**. These materials enable engineers to design lighter yet stronger structures, significantly improving fuel efficiency, performance, and operational durability in aerospace systems.

The lecture also included discussions on the **role of composite structures in next-generation aerospace technologies**, including space vehicles and high-performance aviation platforms. Through several examples and case studies, Prof. Kong demonstrated how the use of advanced materials has revolutionized aerospace structural engineering over the past few decades.

The session generated considerable interest among the participants and was followed by an engaging discussion where faculty members and research scholars interacted with the speaker on topics related to **materials research, aerospace applications, and interdisciplinary research opportunities**. The lecture was widely appreciated for its technical depth, clarity, and relevance to emerging research domains.

During the visit, discussions were also held regarding **future academic collaboration between JUIT and Kunsan National University**. Potential avenues explored included joint research initiatives, exchange of academic expertise, collaborative publications, and the organization of future international workshops and lectures in emerging engineering fields.

The leadership of the university appreciated the significance of such global academic engagements. The **Vice Chancellor of JUIT emphasized the importance of providing students and researchers with exposure to international research perspectives and emerging technologies**. Prof. Sudhir Sayal, **Dean (Research & Innovation)**, highlighted that **international expert lectures play an important role in strengthening research culture and fostering collaborative academic ecosystems**. Prof. Ashish Kumar, **Head of the Department of Civil Engineering**, emphasized the **increasing importance of advanced materials and composite technologies in the future of engineering and infrastructure development**. Dr. Tanmay Gupta, who coordinated the programme, noted that **interactions with globally renowned experts provide valuable inspiration to young researchers and encourage interdisciplinary innovation within the university**.

Such initiatives are strongly supported by the **CEO of JUIT, Sh. Manu Bhaskar Gaur**, whose vision emphasizes **the internationalization of academic programmes and the strengthening of global partnerships for research and knowledge exchange**.

Overall, the event proved to be **highly enriching and academically productive**, offering participants an opportunity to learn from a distinguished international expert while also opening pathways for future collaboration in advanced engineering research.



Media Coverage

The event also received coverage in several digital media platforms highlighting JUIT’s academic initiatives and international engagement.

Media Details	Link of the Clippings
Crazy News India	NewsLink
Himachal Tonite	NewsLink
Asar Newz	NewsLink

Visit Plan of Prof. Changduk Kong

Day 1 (27th February 2026)

Time	Venue	Activity
1:00 PM – 3:00 PM	SOR	Arrival and Lunch
3:00 PM – 3:45 PM	Board Room	Interaction with Deans, HoDs, Associate Dean and Presentation of Dr. Kong on his University Programs
3:45 PM – 5:15 PM	DLC	Technical Lecture (Prof Changduk Kong) Faculty Members and Research Scholars
5:15 PM – 5:45 PM	Academic Block & Labs	Visit to Academic and Research Facilities

Day 2 (28th February 2026)

Time	Venue	Activity
10:30 AM – 11:00 AM	VC Sir’s Office	Concluding meeting and future course of action, in presence of Dean R&I, HOD Civil and program coordinator
11:00 AM – 12:30 PM	Academic Block & Labs, Animal house & associated Labs, Civil Eng Dept.	Visit to Academic and Research Facilities -II
1:30 PM – 1:30 PM	SOR	Lunch Break
PM onwards	Departure for Shimla	Shimla Visit



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Dr. Changduk Kong

Specialization

Aerospace Engineering, Composite Structures, Aero Gas Turbine Technology

Prof. Changduk Kong is an Emeritus Professor at the Department of Aerospace Engineering and former Dean of Chosun University, South Korea. He is a Distinguished Chair Professor at Kunsan National University. He was also an international visiting faculty at the Department of Aerospace Engineering, IIT Kharagpur. His achievements include the development of the first Korean small jet engine and the development of the first Korean 750 KW HAWT wind turbine system. Recipient of Ministry Education Award, 1974; Defense Science medal, Ministry of National Defense, 1989, 91, 92; award from Ministry of Commerce, Industry and Energy, 2004; award from Ministry of Knowledge Economy, 2008.

Prof. Kong has contributed greatly to the development of Aerospace Engineering in Korea, primarily through his roles as President of SASE (The Society for Aerospace System Engineering) in 2013-2016, President of ICRC (International Collaboration Research Centre in Natural Composites, Chosun University) in 2012-2014, former President of KSAS (The Korean Society for Aeronautical and Space Sciences, 2010), former President of KSPE (The Korean Society of Propulsion Engineers, 2007-2008), former President of KNST (Korea Society for Naval Science and Technology, 2018), Ex-Chair of Cycle Innovation- IGTI-ASME in 2009-2011, former President of RIME (Research Institute of Mechanical Engineering-Chosun University, 2006-2008) and former Head of the Aero-Propulsion Division of ADD (Agency for Defense Development, 1978-1994), First Lieutenant of ROKAF (Republic of Korea Air Forces, 1974-1978). He received Order of Science and Technology Merit for his scientific achievement and contribution to Korean aerospace development, Academic Achievement Awards from KSAS, SASE, and KSPE, Defense Science Medals, the 2015 KAI-KSAS Prize, and the KAL-SASE Prize for his scientific achievement and contribution to Korean aerospace development. Prof. Kong has authored and co-authored more than 600 papers.

Prof. Kong has also served as an Editorial Board Member of IJTJ (International Journal of Turbo & Jet Engines), IJCM (International Journal of Composite Materials), CJA (Chinese Journal of Aeronautics) and AEAT (Aircraft Engineering and Aerospace Technology) since 1998, and Editor-in-Chief of JKAS (Journal of Korean Society for Aeronautical and Space Science) and JKSP (Journal of Korean Society of Propulsion Engineers) during 2006-2010.



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Professional Experience

- First Lieutenant, ROKAF (AF ROTC-1st Class, Science and Technology Officer-2nd Class) in 1974-1978
- Head of Aero-Propulsion Division of ADD (Agency for Defense Development) in 1978-1994
- Professor at the Department of Aerospace Engineering of Chosun University during 1994-2016
- Dean of the Facility Management Office at Chosun University in 2011-2012, President of RIME (Research Institute of Mechanical Engineering) at Chosun University in 2006-2008
- Professor Emeritus of Chosun University since 2016
- Director of KIAST (Korea Institute of Aviation Safety Technology) in 2015-2018
- Director of AMRC (UK) Korea in 2016-2021, Advisory Director of KAMRI since 2021, Advisory Director of Hankuk Carbon in 2021
- Director of Research Center of IAM KR Co. since 2023
- International Visiting Professor at the Department of Aerospace Engineering of IIT Kharagpur, India in 2017-2021
- International Visiting Professor at Summer School of Beihang University, China in 2017-2020
- International Visiting Professor at the Department of Aeronautics of Imperial College, UK in 2001-2002.
- Invited Professor at the School of Aerospace and Mechanical Engineering, Korea Aerospace University in 2016-2019
- Awards: Order of Science and Technology Merit from President of ROK, Academic Awards from KSAS, SASE, and KSPE, Defence Science Medals from ADD, KAI-KSAS Award and KA-SASE Award
- Publications: 616 papers including 67 SCI journal papers, 4 books including ‘Aircraft Structures’, ‘Aircraft Gas Turbine Theory’, ‘Introduction to Aerospace Propulsion Engineering(co-author)’, and ‘Introduction to Aeronautics and Astronautics (5th edition, co-author)’



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