

PRECONFERENCE COURSE – CIMA 2025, Los Cabos, B.C.S

Name of course: Course to be taught in presencial o online mode: Fecha del curso: Hours of course: Number of participants (max.): Course Abstract:	“Remote Sensing & GIS for Environmental Applications in Advanced Research” Online mode (in English; Microsoft Teams) 11th November 2025 9:00 – 13:00 hrs; 15:00 – 18:00 hrs 25 Remote sensing offers valuable insights into the spatial and temporal aspects of environmental and Earth systems. This course is designed to help students develop a foundational understanding of remote sensing to analyze both natural and human-influenced Earth systems. Given that expertise in remote sensing requires both technical skills and domain knowledge, our goal is to provide methodological training in specialized areas of the Earth system, enhancing students' comprehension of key processes. The course content combines theoretical concepts with practical exercises. Students will explore digital image processing techniques, various sensor and platform technologies, and current trends and advancements in remote sensing science. Instruction will focus on applying remote sensing to address specific
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Contenido del curso: (cinco puntos importantes o títulos)	global change issues, with less emphasis on developing intricate technical skills. This course aims to prepare a new generation of Earth System scientists who are equipped to face the challenges of a data-rich world. We integrate our own research into the curriculum, ensuring that methods are learned in a contemporary and research-oriented context. Students will also gain interdisciplinary skills in data management and scientific writing. • Principles of Remote sensing • Remote sensing products for Earth system studies • Satellite data acquisition and visualization • Processing and manipulation of remote sensing data • Global change remote sensing applications
Nombre del profesor responsable: Nivel de SNI: Unidad académica: Dirección: Correo electrónico: Teléfono de contacto: Extensión (IPN):	Dr. Godwyn Paulson Pitchaimani Candidato Instituto Politécnico Nacional (IPN), Escuela Superior de Ingeniería y Arquitectura (ESIA) Unidad Ticomán Calzada Ticomán 600, La Purísima Ticomán, 07340, Gustavo A. Madero. CDMX gpitchaimani@gmail.com 56017