

Dr. Yakup Bakış, PhD

IBDP • IGCSE • AP PHYSICS TEACHER

Istanbul, Türkiye | dr.ybakis@gmail.com | +90 535 422 57 86

PROFESSIONAL PROFILE

Senior Physics Teacher and Physicist with over 25 years of experience across IB World Schools, international programmes, private high schools, and universities. Holds a PhD in Physics with a strong record of SCI-indexed publications, thesis supervision, and TÜBİTAK-funded projects. Experienced in teaching IB Diploma Programme Physics (SL/HL), Cambridge IGCSE / AS–A Level Physics, and AP Physics, combining rigorous academic depth with inquiry-based, student-centered pedagogy.

TEACHING EXPERIENCE (SECONDARY & IB)

IB Physics Teacher – Kartal Anatolian Imam Hatip High School (IB World School) | 2022–Present

- Teaching IB Diploma Programme Physics (SL/HL)
- Guiding Internal Assessments and research-based student projects

IB Physics Teacher – Hüseyin Avni Sözen High School | 2020–2021

- IB-aligned Physics instruction with strong emphasis on experimental design

Physics Teacher – Doğa IB World School, Acarkent Campus | 2017–2020

- IBDP Physics instruction, exam preparation, and academic mentoring

Physics Teacher – Various Private Schools & Institutions | 2000–2021

- National and international curriculum physics instruction at upper-secondary level

UNIVERSITY-LEVEL TEACHING EXPERIENCE

Istanbul Gelişim University – Faculty of Applied Sciences (Part-Time Lecturer)

- Electronic Circuits
- Electromagnetic Theory
- Circuit Analysis II
- Basic Electronics & Electrical Laboratories
- Teaching across multiple semesters with class sizes up to 40+ students

EDUCATION

PhD in Physics – Gebze Technical University (2005–2011)

MSc in Physics – Gebze Technical University (2003–2005)

MSc in Physics Education – Marmara University (2001–2003)

BSc in Physics – Istanbul University (1995–1998)

ACADEMIC & RESEARCH HIGHLIGHTS

- Supervisor of MSc theses in nanotechnology and applied physics
- Author of multiple SCI-indexed journal publications (Applied Physics, Materials Science)
- Principal Investigator and Researcher in TÜBİTAK and BAP funded projects
- Research areas include nanotechnology, optics, dielectric spectroscopy, and electronic materials

CURRICULUM EXPERTISE

- IB Diploma Programme Physics (SL/HL)
- IB MYP Science / Physics
- Cambridge IGCSE & AS/A Level Physics
- AP Physics (Mechanics & Electricity and Magnetism)
- Turkish National Curriculum (Upper Secondary Physics)

TECHNICAL & PEDAGOGICAL SKILLS

- Inquiry-based learning and IB assessment design
- Physics laboratories and experimental instruction
- Python, MATLAB, LabVIEW for physics education and simulations
- Academic mentoring and research supervision

LANGUAGES

English – Fluent (Academic & Instructional)

Turkish – Native