



AMRITA
VISHWA VIDYAPEETHAM
DEEMED TO BE UNIVERSITY UNDER SECTION 3 OF UGC ACT, 1956

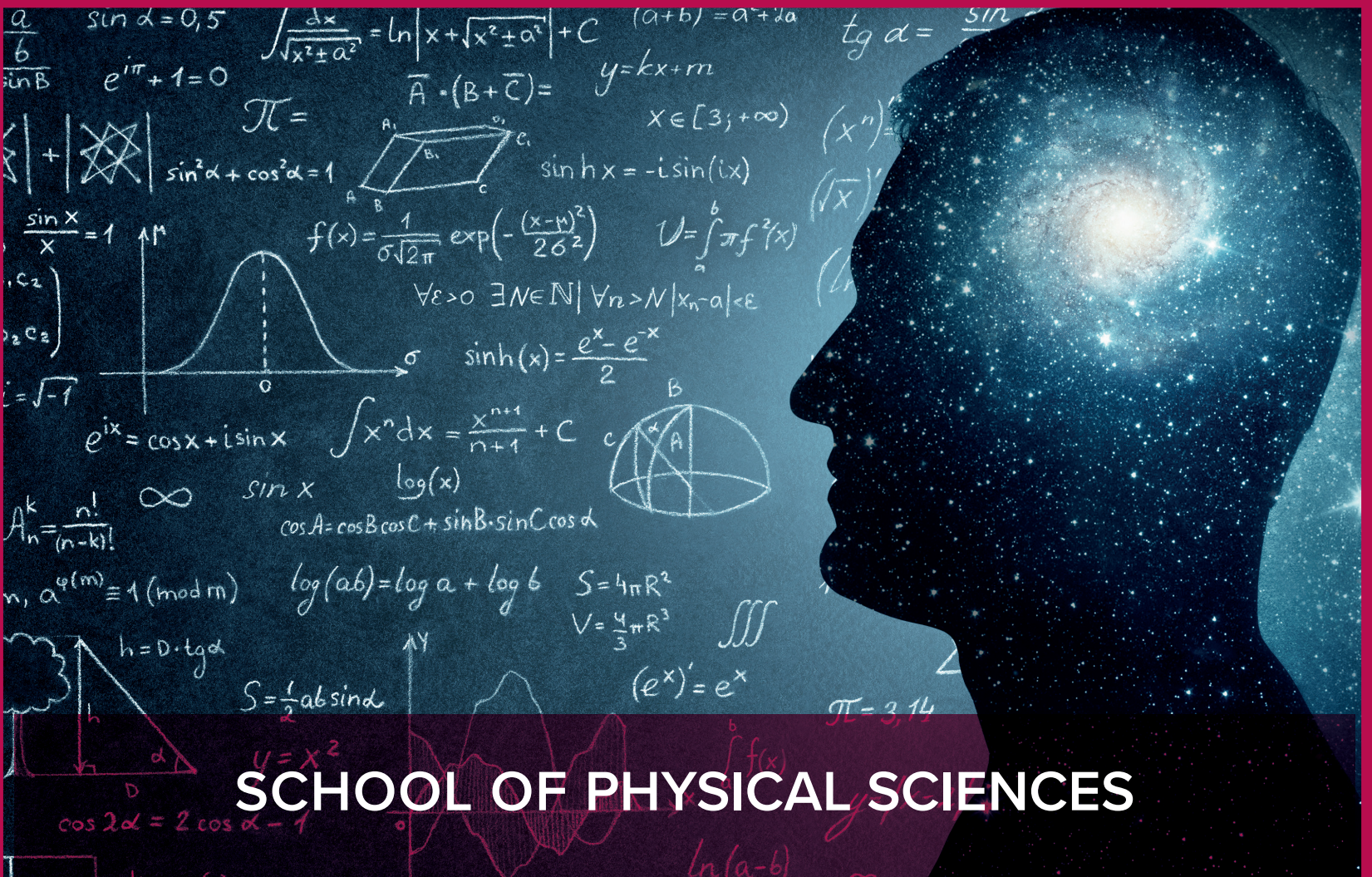
**SCHOOL OF
PHYSICAL
SCIENCES**

Amritapuri | Coimbatore | Kochi | Mysuru



MOVE TO THE FUTURE

HIGHER-ED CONCLAVE '22



SCHOOL OF PHYSICAL SCIENCES

OUR ALUMNI WORK WITH GLOBAL LEADERS



NOTABLE COLLABORATIONS



*Placements ongoing

SCHOOL OF PHYSICAL SCIENCES

The Department of Sciences, comprising Data Science, Food Science, Chemistry, Mathematics and Physics aims at developing a genuine interest in the respective fields by way of combining traditional theories with emerging developments in recent times. In addition to teaching labs for students majoring in Data Science, Food Science, Chemistry, Mathematics and Physics, the Department also has several Research labs with state-of-the-art facilities. Amrita's research fellows are working towards their PhD supported by fellowships from CSIR, INSPIRE-DST etc. Faculty members also collaborate within and outside Amrita for interdisciplinary research initiatives. These Programmes are in consonance with the national vision of strengthening Education and Research in the fields of Physical Sciences. They aim to create youngsters with strong fundamentals that equip them to become good professionals in their chosen field of study.

PROGRAMMES

Undergraduate

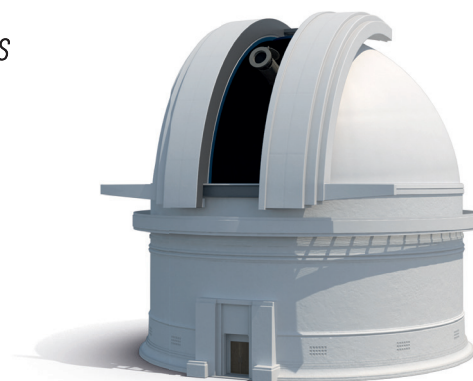
- *B.Sc. Physics, Mathematics, Computer Science*
- *B.Sc. Physics, Chemistry, Mathematics*
- *B.Sc. Food Science and Nutrition*
- *B.Sc. (Hons.) Chemistry with a Minor in Material Design*

5-yr Integrated

- *Int. M.Sc. Data Science*
- *Int. M.Sc. Mathematics*
- *Int. M.Sc. Physics*
- *Int. M.Sc. Chemistry*
- *Int. M.Sc. Physics with a Minor in Scientific Computing*
- *Int. M.Sc. Mathematics with a Minor in Data Science*

PROGRAMME SPECIFIC OUTCOMES

- *Imparting innovative thinking and research right from the undergraduate level*
- *Development of analytical, problem solving and communication skills*
- *Mandatory research article publication*
- *High integrity, value education and life skills*
- *Hands-on projects to provide experiential learning*
- *Research addressing societal needs*
- *Emphasis on sustainable development*



CURRICULUM

- Core Sciences (Analytical thinking, Problem-solving)
- Value Added Courses (Cultural education, Electives, Soft skills)
- Experiential Learning (Project, Alive programs)
- Environment and Sustainability (EVS, Electives on sustainability)



FACILITIES

- Highly qualified faculty members from various IITs/top universities in India and abroad
- State-of-the-art academic and research laboratories and infrastructure
- Admitted candidates are trained for various competitive exams
- Exit option for Integrated Programmes with a B.Sc. degree at the end of the third year
- Guidance in preparation for national-international levels scholarship tests such as UGC/CSIR - NET, GATE, TOEFL, IELTS and BEC
- The Int. M.Sc curriculum prepares students to clear national level exams such as JAM (for exit option students), GATE and CSIR
- Students are encouraged to intern in premier research institutes such as IISER, IIT, SINP, TIFR and BARC

RESEARCH LABORATORIES

- Amrita Biosensor Research Lab
- Amrita Biochemistry Materials Research Laboratory
- Dhanvanthri Laboratory
- Sustainable Multifunctional Materials Laboratory
- Food Science Laboratory
- Amrita Materials Processing Laboratory
- Biomaterials Laboratory
- Optics and Instrumentation Research Laboratory
- Ceramic Research Laboratory
- Ion Trap Laboratory



FLUORESCENCE
MICROSCOPE



HOT AIR OVEN



BALL MILLING UNIT



FTIR
SPECTROPHOTOMETER

RESEARCH OPPORTUNITIES

After completion of the programme and clearing GATE/CSIR/Institute specific entrance tests, students can get admission to premier institutes such as IIT, IISER, NPL, TIFR, IOP, PRL and IPR

JOB OPPORTUNITIES

- *Students with B.Sc and Int. M.Sc degrees are eligible for teaching jobs after clearing B.Ed.*
- *Students with Int. M.Sc degrees are eligible to apply for project assistant positions in research institutes*
- *Students are eligible to apply for entry-level jobs in electronics industries, coating industries and materials development industries*
- *Students with a Postgraduate degree are eligible to get into premier institutes in various capacities after clearing their entrance tests*

RESEARCH OPPORTUNITIES

An aggregate of 55% or more in +2 or equivalent with minimum 50% marks in Physics, Chemistry, Mathematics and/or Computer Science.

₹ **12.5+ Cr.**

Research Funds

4

Awarded
US Patents

33

Funded
Projects

60

Research
Scholars

8

NET/GATE
Qualified

183+

International Journal
Publications

40+

Students pursuing
Ph.D in International
Universities

COURSE OFFERED IN

Amritapuri
Kochi

Coimbatore
Mysuru



0444-6276066 (Admissions)

SCAN TO APPLY

