



MARIAN COLLEGE
KUTTIKKANAM
(AUTONOMOUS)

MAKING COMPLETE

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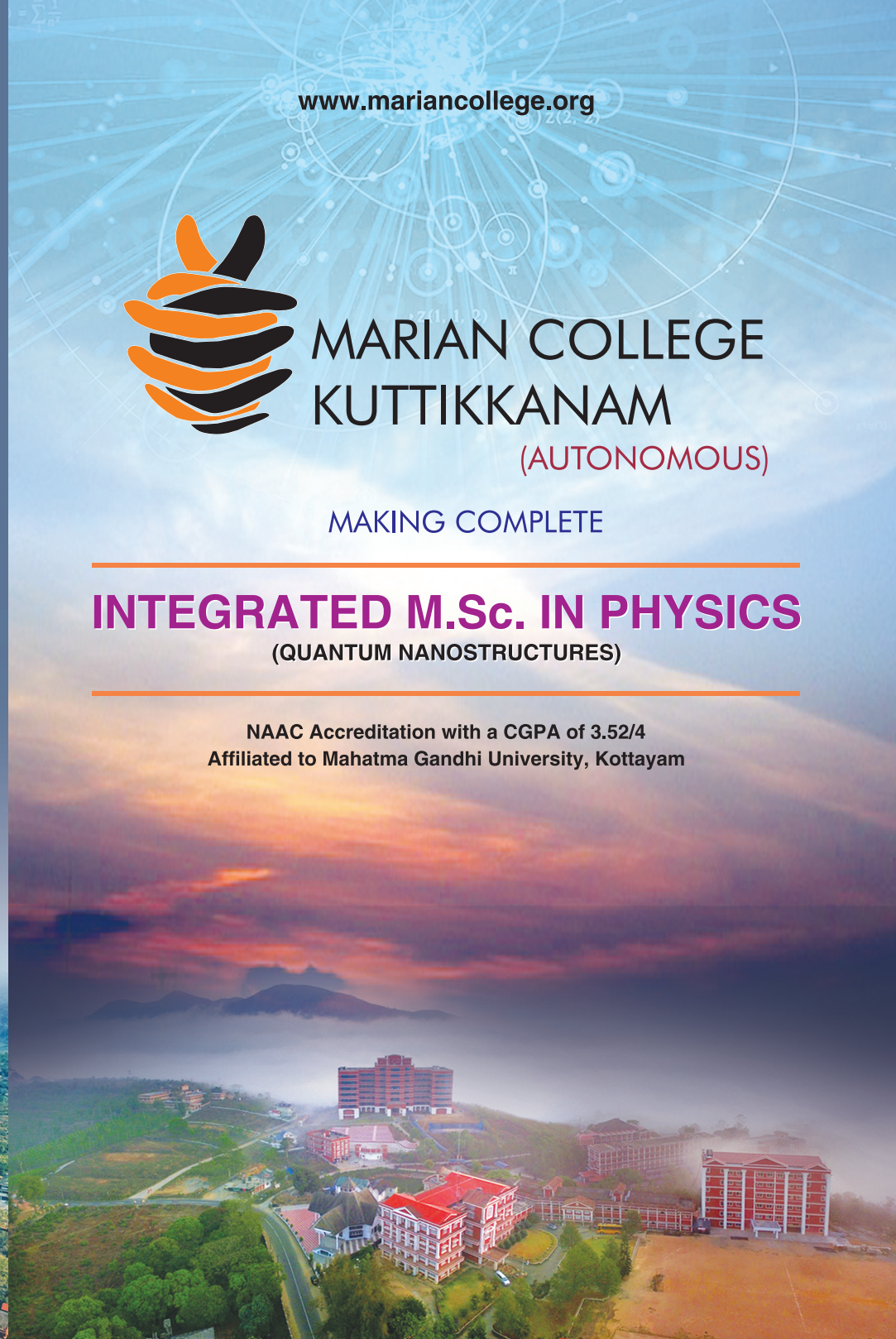
MAKING COMPLETE

INTEGRATED M.Sc. IN PHYSICS
(QUANTUM NANOSTRUCTURES)

NAAC Accreditation with a CGPA of 3.52/4
Affiliated to Mahatma Gandhi University, Kottayam



With Thanks to 2356098



PROSPECTS OF INTEGRATED M.Sc. PHYSICS PROGRAMME

There is an unprecedented demand for qualified professionals with deep knowledge of physical science following the recent boom in the area of pure and applied science. We have thoughtfully selected the courses of Integrated MSc. Physics programme which would ensure the development of all rounded professionals in Physics by OBE method. This programme enables students to pursue careers in Nanotechnology, Semiconductor Physics, Solar Energy, Smart Materials, Space Physics, Energy Physics, Quantum Computing, Machine Learning etc.

Marian ensures to skill the scholars to appear at national level entrance examinations for research in IISC, IIT, IISER, NIT, and Central Universities etc. through the programme.

MARIAN COLLEGE, KUTTIKANAM (AUTONOMOUS), established in 1995 and owned by the Catholic Diocese of Kanjirappally enjoys a unique and enviable history of maintaining quality and excellence in the domain of higher education in Kerala. Marian is an adobe for learners where 'tireless striving stretches its arms towards perfection'. This institution espouses a unique paradigm of enlightenment rooted in the composite, pluralistic and heritage-proud Indian ethos sticking on to our motto 'inform, form, transform'.

SPECIALITIES OF INTEGRATED M.Sc. PHYSICS AT MARIAN

The Marian Integrated M.Sc. Physics programme gives significant emphasis on core courses in Physics and complementary courses in Mathematics and Chemistry. Extended lab hours in core area will be a unique opportunity to gain invaluable, hands-on industry experience and build their professional networks, giving them a competitive edge for future career prospects.

Major, minor and summer projects/internships at reputed national institutes/industries form an integral part of this programme. Specially designed skill-enhancing courses are included in all semesters to develop entrepreneurial and career skills of the students.



FACILITIES AND FEATURES

Marian College has world class, state of the art infrastructure to facilitate interactive and effective learning through:

- Erudite faculty
- Unique and tech-aided teaching and assessment methodologies.
- Outcome Based Education (OBE) system.
- Incorporation of UGC syllabus
- Physics/Chemistry lab with advanced research facilities.
- Elective course in Nano science & Nano technology.
- Soft skills enhancement training.
- Ensuring diversity through student and faculty exchange programmes.
- Library with 32000 titles, 2 lakh+ E-books and 10000+ E-journals.
- Innovation and Entrepreneurship Development Center.
- Safe and convenient residential facilities on campus for girls and boys.
- Multi-gym, Fitness Center and Indoor Stadium.
- Well Equipped Infirmary and Counseling Center.
- Cafeteria, Snack bar and Reprographic Center.
- Round the clock prayer and meditation halls.
- Special coaching for competitive examinations for higher Studies (CSIR-NET, JRF etc.)



SKILL DEVELOPMENT COURSES

- ▶ Foundation course in Reasoning
- ▶ Training in Arduino Micro Controller
- ▶ Observational Astronomy
- ▶ Python Programming
- ▶ Yoga & Health
- ▶ Finishing school, etc.
- ▶ LaTeX programming
- ▶ Plant propagation techniques
- ▶ Machine Learning in Python
- ▶ Health & Emergency Care

SCHOLARSHIPS AND FREE SHIPS

Around 20% of the students are financially supported by the institution through different schemes. In addition to the institutional scholarships, all eligible candidates are assisted in obtaining different Government scholarships. All together more than 60% of our students are granted scholarships.

LOCATIONAL ADVANTAGES

Marian College is located in the lush green Western Ghats and you are never far from the picturesque tourist location with temperature ranging from 15 to 24-degree Celcius. Studying on a beautiful campus, you will be surrounded by luxuriant frondescence with salubrious climate and a blend of rich heritage and modern culture.

Marian ensures the all-inclusive safety of students. The College is quite watchful to guard her students from all forms of exploitations like substance abuse, sexual abuse, verbal abuse and physical abuse. The entire campus is monitored 24/7 through electronic surveillance system.

