

# Dept. of Physics

## YEAR OF ESTABLISHMENT

1961

## ADDRESS

THE UNIVERSITY OF BURDWAN  
GOLAPBAG CAMPUS, BURDWAN,  
WEST BENGAL – 713104



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## ABOUT OUR DEPARTMENT

The Department of Physics was started in September 1961 to meet the academic interest and to fulfill the gradual increasing demand of a large section of students in rural Bengal for pursuing higher education in the Post Graduate level. Though the main teaching course of the department was M. Sc in Physics, the growth and enrichment of the department in all respect have resulted into the initiation of several other courses and programs, such as Ph. D program, M. Tech in E&CE (Microwaves) and M.Phil in Physics. This department has been serving the responsibility of planning, supervising and monitoring the undergraduate courses imparted at the colleges affiliated to the University of Burdwan, in the districts of Burdwan, Bankura, Birbhum, and a major part of Hooghly.

The syllabus of the M.Sc. Course is framed keeping harmony with the front ranking universities of the country and are being reviewed by the experts in the field from time to time. As far as research activities are concerned the faculty members of the Department had individually obtained several major research projects from various funding agencies such as UGC, DST, DRDO, ARDB, ISRO, CSIR, BRNS, etc., and all of them have been successfully completed. Moreover, several research projects were granted to this Department by the University Grants Commission (UGC) and Department of Science and Technology (DST), Government of India as Departmental assistance programs, all of which were carried out successfully and now the UGC has recognized this Department as a **Center of Advanced Study (CAS)** from the year 2011. Moreover, the Department is funded by DST under the FIST program (Phase-II).

## COURSES OFFERED

- M.SC. IN PHYSICS (2 YEARS)
- M.PHIL.
- M.TECH IN E&CE
- PH.D.
- POST-DOCTORAL FELLOWSHIP
- D.Sc

## MAJOR ELECTIVES

ADVANCED ELECTRONICS

LASER PHYSICS

MATERIALS SCIENCE

CONDENSED MATTER PHYSICS

NUCLEAR & PARTICLE PHYSICS

ASTROPHYSICS & COSMOLOGY

## IN-TAKE CAPACITY

M. Sc (PHYSICS) – 89 SEATS

M.TECH (IN EC&E)– 15 SEATS

PH.D. – 104 SEATS

## FACULTY

NO OF PROFESSORS : 8

NO OF ASSOCIATE PROFESSOR : 4

NO OF ASSISTANT PROFESSOR : 4

NO OF SCIENTIFIC OFFICER : 3

NON-TEACHING STAFF : 13

## RESEARCH AREA

A. CONDENSED MATTER,

MATERIALS SCIENCE AND LASER

B. ELECTRONICS AND PHOTONICS

C. THEORETICAL PHYSICS

## STATISTICS OF PAPER/BOOK PUBLICATION

■ BOOK PUBLICATION	: 16 (CHAPTERS IN EDITED BOOKS) AND 2 (EDITED BOOKS)
■ INTERNATIONAL JOURNAL	: 332
■ NATIONAL JOURNAL	: 11
■ INTERNATIONAL CONFERENCE	: 69
■ NATIONAL CONFERENCE	: 114
■ WHITE PAPER PUBLICATION	: NIL

## RESEARCH FUNDED BY

- UGC SAP
- DST FIST
- SERB (DST)
- UGC, DRDO, CSIR, DAE, DoE (MIT), ARDB, ISRO, DRDA, AICTE

## COLLABORATION WITH OTHER INSTITUTIONS

- PROF. ECHEHARD SCHOELL, INSTITUTE FOR THEORETICAL PHYSICS, TECHNICAL UNIVERSITY OF BERLIN, BERLIN, GERMANY.
- PROF. JUERGEN KURTHS, POTSDAM INSTITUTE FOR CLIMATE IMPACT RESEARCH, POTSDAM, GERMANY.
- DEPARTMENT OF CHEMISTRY, UNIVERSITY OF CAMBRIDGE, LENSFIELD ROAD, CAMBRIDGE, CB2 1EW, UK.
- PROFESSOR KAZUYOSHI YOSHIMURA, KYOTO UNIVERSITY AND DIRECTOR OF THE RESEARCH CENTER FOR LOW TEMPERATURE AND MATERIALS SCIENCES, GRADUATE SCHOOL OF SCIENCE, KYOTO UNIVERSITY. IN THIS COLLABORATION ONE PAPER IS PUBLISHED IN 2014 IN JOURNAL OF ALLOYS AND COMPOUNDS (IMPACT FACTOR 2.999) AND ONE PAPER IS REPORTED IN AN INTERNATIONAL CONFERENCE HELD AT GUAHATI IN 2013.
- PROFESSOR JEAN-MARC GRENECHE, UNIVERSITÉ DU MAINE 72085 LE MANS CEDEX 9 FRANCE, AND DIRECTOR, THE INSTITUTE OF MOLECULES AND MATERIALS OF LE MANS. IN THIS COLLABORATION ONE PAPER IS PUBLISHED IN 2015 IN MATERIALS RESEARCH BULETIN (IMPACT FACTOR 2.288).
- PROF. F. MAZALEYRAT, ENS DE CACHAN, FRANCE. THREE PAPERS ARE PUBLISHED IN DIFFERENT JOURNALS LIKE JOURNAL OF PHYSICS C: CONDENSED MATTER, SOLID STATE COMMUNICATION, JOURNAL OF ALLOYS AND COMPOUNDS.
- PROF. K. THAMILMARAN, CENTRE FOR NONLINEAR DYNAMICS, BHARATHIDASAN UNIVERSITY, TRICHY, TAMILNADU.
- DR. PARTHA SARATHI DUTTA, DEPARTMENT OF MATHEMATICS, IIT ROPAR, INDIA.
- DR. DIBAKAR GHOSH, ISI KOLKATA, BARANAGAR, INDIA.
- COLLABORATION WITH SAC, ISRO, AHMEDABAD HAS BEEN ESTABLISHED RESEARCH IN FIELD OF GLOBAL NAVIGATION SATELLITE SYSTEM (GNSS) AND WE RECEIVED TWO IRNSS-GPS-SBAS RECEIVERS FROM ISRO FOR FIELD TRIAL AND R&D (COST Rs 12. 36 LAKHS)
- INSTRUMENT RESEARCH AND DEVELOPMENT ORGANIZATION, DRDO, DEHRADUN.

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## COLLABORATION WITH OTHER INSTITUTIONS

- UGC-DAE CONSORTIUM FOR SCIENTIFIC RESEARCH, KOLKATA CENTRE, BIDHAN NAGAR, KOLKATA 700098, INDIA.
- DEPARTMENT OF MATERIALS SCIENCE, INDIAN ASSOCIATION FOR THE CULTIVATION OF SCIENCE, KOLKATA 700032, INDIA.

## SOME OF OUR ALUMNI ARE ASSOCIATED WITH

- NIST, BOULDER, USA
- THE UNIVERSITY OF SOUTHERN UNIVERSITY, USA
- TIFR, MUMBAI
- BARC, MUMBAI
- IPR, AHMEDABAD
- DRDO, INDIA
- IUAC, NEWDELHI
- IIT KHARAGPUR
- IIT GUAHATI
- SINP, KOLKATA
- VECC, KOLKATA