



## Bishop Heber College (Autonomous)

(Nationally reaccredited with 'A' grade by NAAC with a CGPA of 3.58 out of 4)  
(Recognized by UGC as "College of Excellence")  
Thiruchirappalli - 620017,



## DEPARTMENT OF PHYSICS



### DR. C. RAVIDHAS

Asst. Professor & HOD  
Dean of Staff and Students Welfare

### Contact Details

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Email: cravidhas@gmail.com



### OPPORTUNITIES

- Meteorologist
- Professor/Teacher
- Acoustic consultant
- Test Engineer
- Nuclear Engineer
- Geophysicist
- Aeronautical Engineer
- Research Scientist
- Astronomer
- Optical Engineer
- Radiologist
- Laser Engineer
- Aerospace Technician
- Biomedical physicist



### UNIQUENESS

- DBT-FIST Sponsored
- DBT Star Scheme
- Free coaching classes conducted for UG and PG students to clear IIT, JAM and other qualifying entrance test every year.
- The Department of physics is the nodal center for conducting NGPE (NATIONAL GRADUATE PHYSICS EXAMINATION).
- Diploma and Certificate Programme for PG and UG students are offered to improve career, acquiring professional skills.



### FUTURE PLANS OF THE DEPARTMENT

- Wind mill education center
- Solar panel -Renewable energy Studies
- e-vehicle assembling training
- Telescope and sky watch-Astroclub
- E-waste recycling training



### ALUMNI-SUCCESS STORIES

- DR.P.SUDHAGAR  
Associate Professor (Green Hydrogen, ecarbonisation,solar enery),  
Heriot-Watt University,Riccation,Scotland,United Kingdom.
- KAVIYA of III BSc Physics B is now pursuing her Master's in  
Applied physics in University of Bologna

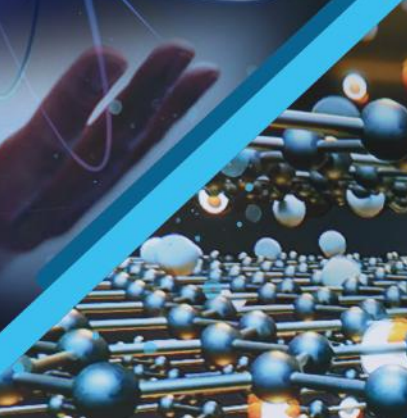


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## DEPARTMENT OF PHYSICS

Integrating Intellectual Prospects





## ABOUT THE DEPARTMENT

The Department of Physics shares the top position on the chronological list of programmes started. The Department was established in 1966.

**1972** The UG(B.Sc) Programme was started

**1992** P.G. Department was started

**2009** Research Department was started

### VISION

Individuals to explore their capabilities, to develop intellectual and human potential. The scholarship and collegiality it fosters the students will live with advanced knowledge.

### MISSION

The Department seeks to identify and remove the restraints on students' total participation in their academic pursuit and other related activities so that they may blossom into physicists of high quality and employability to serve the society, the nation and the world at large

## PROGRAMMES OFFERED

**B.SC. PHYSICS**  
(AIDED, SF-SHIFT 1, SHIFT 2)

**M.SC. PHYSICS**  
(SHIFT 1 & SHIFT 2)

**M.PHIL. (PHYSICS)**  
(PART TIME AND FULL-TIME)

**PH.D. (PHYSICS)**  
(FULL-TIME & PART-TIME)



## STAFF PROFILE-CURRENT YEAR

• Faculty with teaching experience more than 10 years	- 72%
• Faculty with Ph. d	- 70%
• Research papers in internationally Reputed journals	< 25
• Research presentations in national & international conferences	< 30
• Faculty with MPhil/Ph.D. Guidship	- 10
• Highest Impact factor ranging	- 6.5
• Highest Citation Index	- 1735
• Highest h index	- 22
• Highest i10 index	- 41

## INFRASTRUCTURE

- Well-equipped Physics laboratories (Major lab, Allied lab, Electronics lab, PG lab)
- Smart Classrooms.
- Computer lab (35 computers with internet facilities)
- Commendable Research Facility- Sputtering unit, Electron Beam Evaporation unit, Thermal evaporation unit, I-V Measurements with Keithley 2400 source meter, Hall probe measurements, Photo catalytic reactor, Thickness profilometer, Spray pyrolysis unit, LCR meter, Spin Coating unit, Ultrasonic interferometer, Muffle furnace, Pelletizer, REMI Incubator, Glove box, Digital weighing Balance, Microwave oven, UV Curing Photo reactor, Constant Temperature Bath, Autoclave, Bridgman Gel Growth
- Nonlinear Dynamics Lab



## LEARNING RESOURCES

- International Conference on Functional Material for Energy, Environment and Biomedical Application (ICFMEBA).
- National level - A Practical Hands-on Workshop Material Characterization Data Analysis using Reitveld Refinement, XPS & DFT.
- Summer Training Programme on Materials Science.
- Seminar on the Commemoration of National Science Day Michael Faraday's Birthday, Einstein's birthday.
- Webinar, Lecture Series & Invited Talks.
- Add on courses-Arduino & Robotics, Extra Credit Courses Biomedical Instrumentation, Value Added Courses- Programming in Python Spice simulation in Electronic Circuits.
- Awareness Programme on Innovation, Incubation & Entrepreneurship - Hands on Training Programme.
- PROXPO- An inhouse Science exhibition of the models/posters
- Capacity building programme on career guidance and entrepreneurial opportunities.
- SURPHY - Intercollegiate Festival
- ENSEMBLE (Intra-Departmental Programme)
- Intercollegiate visits

## RESEARCH SPECTRUM

- Solar Panels
- Thin Films
- Nano Materials
- Dielectrics
- Batteries
- Crystal Growth
- Nonlinear Dynamics



Silambattam



Chess



Archery

## RESEARCH GRANTS-ONGOING

- Dr. T. Kanna received a grant of Rs. 19,29,928/- from DST-SERB for the Research Title Dynamics in homogeneous and inhomogeneous nonlinear optical systems: Soliton synchronization and birth of rogue waves with application to optical computing
- Ms. K.C. Mercy Gnana Malar, Mr. V. Antony Raj, Mr. A. Krishnamoorthy, Dr. S. David Jeril, Dr. A. Renitta received an amount of Rs. 50,000 each for their Research projects.

## ACHIEVEMENT OF LEARNERS

- University rank holders
- Higher Studies abroad (Korea, Thailand, Italy, Germany, UK)
- Cleared NET, SLET, TET, PG-TRB, IIT-JAM.
- Scientists in renowned research Institutes
- High profile employment
- Extracurricular Activities.

## HIGHLIGHTS

