Department of Physics
Welcomes NAAC Peer Team
Year of Establishment

- June, 1969 [From June 1969 to 1984 as Department of Physics, Rishi Bankim Chandra College, Evening Section]
  (Under the affiliation of University of Calcutta)
- 1984 onwards as Department of Physics, Rishi Bankim Chandra Evening College
  (Under the affiliation of University of Calcutta)
- 2008 onwards as Department of Physics, Rishi Bankim Chandra Evening College
  (Under the affiliation of West Bengal State University)
Programs run at present

- Under-Graduate Course
  B. Sc. (Pure); Physics General

Student Evaluation System

- Test and Annual Examination system in Part I, Part II and Part III
## List of Teachers

<table>
<thead>
<tr>
<th>Name</th>
<th>Qualification</th>
<th>Designation</th>
<th>Specialization</th>
<th>Years of Experience</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dr. Debojyoti Halder</td>
<td>M. Sc., Ph. D.</td>
<td>Assistant Professor</td>
<td>Electronics and Communication</td>
<td>1.5 years</td>
</tr>
<tr>
<td>Dr. Suman Paul</td>
<td>M. Sc., Ph. D.</td>
<td>Visiting Faculty</td>
<td>Communication</td>
<td>11 years</td>
</tr>
<tr>
<td>Prof. Abhisek Adhikari</td>
<td>M. Sc.</td>
<td>Visiting Faculty</td>
<td>Hyperfine Technique &amp; Surface Spectroscopy</td>
<td>2.5 years</td>
</tr>
</tbody>
</table>

Sanctioned teaching posts are 2, but there is one whole-time assistant professor.
Dr. Debojyoti Halder

Debojyoti Halder
Assistant Professor
Radio Astronomy, Solar and Planetary Astronomy, ...
Verified email at gmrt.ncra.tifr.res.in
My profile is public

Google Scholar

Citation Indices

<table>
<thead>
<tr>
<th>Citation Indices</th>
<th>All</th>
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<tr>
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<td>i10-index</td>
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<tr>
<th>Title</th>
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<th>Year</th>
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<tbody>
<tr>
<td>DETECTION OF JOVIAN RADIO BURSTS AT HIGH ALTITUDES</td>
<td>3</td>
<td>2012</td>
</tr>
<tr>
<td>by ABDUSAMUDDIN RAHA</td>
<td></td>
<td></td>
</tr>
<tr>
<td>International Journal of Engineering Science and Technology 4 (6), 3029-3038</td>
<td></td>
<td></td>
</tr>
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</table>

| Identification of Solar Flare in the Tropics        | 3        | 2011 |
| by DKTDH A. B. Bhattacharya, B. Raha                 |          |      |
| International Journal of Advances in Science and Technology 3 (2), 57-61 |

| Reception of Jovian Radio Signals in a Tropical Station | 3        | 2010 |
| by DH A. B. Bhattacharya, S. Joarder, R. Bhattacharya, M |
| International Journal of Engineering Science and Technology 2 (10), 5704-5713 |

| Wind-Proof Log Periodic Dipole Array for Capturing Solar Radio Bursts | 2        | 2010 |
| by DHMD A. B. Bhattacharya, S. Joarder, A. Nag           |          |      |
| International Journal of Engineering Science and Technology 2 (9), 9 |

| ANATOMY OF SOLAR CYCLE LENGTH AND SUNSPOT NUMBER: DEPENDENCE OF AVERAGE GLOBAL TEMPERATURE ON SOLAR ACTIVITY | 1        | 2011 |
|                                                                                                           |          |      |
Dr Suman Paul

Centre of Advanced Study in Radio Physics and Electronics, University of Calcutta
Atmospheric Physics, Ionosphere, Aurora, VLF-LF Sterics, Earthquake
Verified email at sumanpaul.vpweb.in - Homepage
My profile is public

Studies on the shift in the frequency of the first Schumann resonance mode during a solar proton event
SS De, BK De, B Bandyopadhyay, S Paul, DK Haldar, S Banui
Journal of Atmospheric and Solar-Terrestrial Physics 72 (11), 629-636
17 2010

The effects of solar eclipse of August 1, 2008 on Earth's atmospheric parameters
SS De, BK De, B Bandyopadhyay, BK Sarkar, S Paul, DK Haldar, S Banui, ...
Pure and Applied Geophysics 167 (10), 1273-1279
8 2010

Effects of a Solar Eclipse on the Propagation of VLF-LF Signals: Observations and Results
BK De, SS De, B Bandyopadhyay, P Pal, R Ali, S Paul, PK Goswami
Terrestrial, Atmospheric & Oceanic Sciences 22 (4), 435-442
6 2011

Analyses of Schumann resonance spectra from Kolkata and their possible interpretations
SB SS De, BK De, BK Sarkar, B Bandyopadhyay, DK Haldar, S Paul
Indian Journal of Radio and Space Physics 38 (4), 208-214
6 2009

Citation Indices

- Citations: 88 (85)
- h-index: 5 (5)
- i10-index: 1 (1)

Add co-authors
pranab hazra + x
Anirban Guha + x
Dr. Rakesh Roy + x

No co-authors
Student – Teacher Ratio

- In B. Sc. General course, student enrollment varies each year so is the student teacher ratio.

- For academic year 2016-17, this ratio is almost 53:1

- The percentage of lecture and practical classes handled by Guest or Visiting teachers are about 41%
### Academic Support Staffs

<table>
<thead>
<tr>
<th>Name</th>
<th>Designation</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sri Arabinda Sarkar</td>
<td>Skilled Lab. Attendant</td>
</tr>
<tr>
<td>Sri Debojit Ghosh</td>
<td>Group D</td>
</tr>
</tbody>
</table>
Publications of Teachers (last 5 years)

- International Journals and Symposia – 28+
- National Journals and Symposia – 4+
- E-Book – 1
Recents Publications of Debojyoti Halder


‡ Comparison of Solar and Jovian Radio Emission at 20.1 MHz by Debojyoti Halder and Bipasa Raha, Lecture Notes in Networks and Systems, (Accepted)
Recents Publications of Suman Paul


- P. Hazra, S. Barui, S. S. De and Suman Paul, Studies on the influence of two large earthquakes (M>6) upon 9 kHz sferics recorded from Kolkata, Romanian J. Phys., 60, 2015, 1218-1224.

1. Prof. Abhisek Adhikari – Life Member of Calcutta Mathematical Society

2. Dr. Debojyoti Halder – Member of Institute of Electrical and Electronics Engineers (IEEE)

3. Dr. Suman Paul – Member to the Engaged Group of COSPAR Commission C-2016
Year-Wise Student Enrollment

![Bar Chart: Year-Wise Student Enrollment]

- **NO. OF STUDENTS**
- **ACADEMIC YEAR**

- **1st Year**
  - 2011-12: 70
  - 2012-13: 90
  - 2013-14: 80
  - 2014-15: 70
  - 2015-16: 80
  - 2016-17: 90

- **2nd Year**
  - 2011-12: 30
  - 2012-13: 40
  - 2013-14: 40
  - 2014-15: 30
  - 2015-16: 40
  - 2016-17: 50

- **3rd Year**
  - 2011-12: 20
  - 2012-13: 30
  - 2013-14: 30
  - 2014-15: 20
  - 2015-16: 30
  - 2016-17: 40
Success Rate of 3rd Year Students
(Based on Practical Exam.)

<table>
<thead>
<tr>
<th>Year</th>
<th>Appeared</th>
<th>Passed</th>
</tr>
</thead>
<tbody>
<tr>
<td>2012-13</td>
<td>30</td>
<td>30</td>
</tr>
<tr>
<td>2013-14</td>
<td>24</td>
<td>24</td>
</tr>
<tr>
<td>2014-15</td>
<td>19</td>
<td>18</td>
</tr>
<tr>
<td>2015-16</td>
<td>15</td>
<td>15</td>
</tr>
</tbody>
</table>
Students during Practicals
Student Projects
Student Projects
Diversity of Students

- Almost 99% of the students are from this state

Post-Graduate activities of students

- A little enters into Post-graduate studies
- Rate of student progression is very low as only B. Sc. General course is running
- Last year passed students are mainly taking coaching for all type of Government jobs
- Some students also taking Diploma and Vocational classes
Library Facilities

- Central library
  Total No. of Books: 1790
  Text – 1664
  Reference – 126

*The department is keen to open its own library*
Instrumental Facilities

- **Laboratory**

  *This Department has well-equipped laboratory with modern equipments*

  *A dark room is there with instruments for optical practicals*
Infrastructural Facilities

- Internet facilities for Staff & Students
  
  We have one laptop with LAN connection and internet facility

- Class rooms with ICT facility
  
  EVNET is used for this reason
Teaching – Learning Method

• **Traditional Lecture Method**

• **Regular Practical Classes**

• **Class Tests in each 3-4 months**

• **Student Projects**

• **Remedial classes to weaker section of the students**
Institutional Social Responsibility (ISR)

- Students and teachers take part in National Service Scheme (NSS) programs and external activities
- Campaigning of various social activities
- Tree Plantation
External Social Activities: NSS programs
External Social activities: Tree Plantation
SWOC of the Department

- **Strength:**
  - The Department has efficient and dedicated faculties
  - The students are very much sincere and energetic
  - Theory and Practical classes are held regularly

- **Weakness:**
  - The laboratory needs new instruments and improved facilities
  - Shortage of space, faculty and technical staffs
SWOC of the Department

- **Opportunities:**
  - B. Sc. Graduates get opportunity for higher studies
  - They can undergo professional courses
  - They may get job in Education, Banking and Corporate section

- **Challenges and Constraints:**
  - The timing of the college: 4:30 p.m. to 9:10 p.m.
  - To motivate students for higher studies and better career
Future Plans of the Department

- Opening Physics Honours course with proper infrastructure and sufficient full time teachers
- Up-gradation of the Laboratory in due course
- Setting up a classroom with ICT facility
- To Conduct Major and Minor Research Projects