

Department of PHYSICS

1. Name of the Department & its year of establishment - **PHYSICS, 1965**
2. Names of Programmes / Courses offered (UG, PG, M.Phil., Ph.D., Integrated Masters; Integrated Ph.D., etc.) - **UG**
3. Interdisciplinary courses and departments involved – **ENVIRONMENTAL SCIENCE, GENNERIC ELECTIVE IN PHYSICS**
4. Annual/ semester/choice based credit system - **CBCS**
5. Participation of the department in the courses offered by other departments –
6. Number of teaching posts sanctioned and filled (Professors/Associate Professors/ Asst. Professors)

	Sanctioned	Filled
Professors		
Associate Professors	05	05
Asst. Professors	02	02

7. Faculty profile with name, qualification, designation, specialization, (D.Sc./D.Litt. /Ph.D. / M. Phil. etc.,)

Name	Qualification	Designation	Specialization	No. of Years of Experience	No. of Ph.D. students guided for the last 4 years
Mrs.T.Rath	M.Sc	Reader	Electronics	33	
Mrs.S.Mishra	M.Sc.,M.Phil	Reader	Solid state Physics	30	
Mr.B.B.Panda	M.Sc.	Reader	Electronics	32	
Mr.A.R.Panda	M.Sc.	Reader	Spectroscopy	31	
Mrs.A.Mahanayak	M.Sc.,M.Phil	Reader	Plasma Physics	28	
Mr.A.P.Sarangi	M.Sc.	Sr. Lect.	Electronics	28	
Mr.B.Samantasinghar	M.Sc.	Sr. Lect.	spectnoscopy	26	

8. Percentage of classes taken by temporary faculty – programme-wise information - **NA**
9. Programme-wise Student Teacher Ratio – **35 : 01**
10. Number of academic support staff (technical) and administrative staff: sanctioned and filled - **05**
11. Number of faculty with ongoing projects from a) national b) international funding agencies and c) Total grants received. Mention names of funding agencies and grants received project-wise. - **NIL**
12. Departmental projects funded by DST-FIST; DBT, ICSSR, etc.; total grants received - **NIL**
13. Research facility / centre with - **NO**
 - state recognition
 - national recognition
 - international recognition
14. Publications: - **NO**
 - * number of papers published in peer reviewed journals (national / international) –
 - * Monographs
 - * Chapter(s) in Books
 - * Editing Books
 - * Books with ISBN numbers with details of publishers
 - * number listed in International Database (For e.g. Web of Science, Scopus, Humanities International Complete, Dare Database - International Social Sciences Directory, EBSCO host, etc.)
 - * Citation Index – range / average
 - * SNIP
 - * SJR
 - * Impact factor – range / average
 - * h-index

15. Details of patents and income generated - **NO**
 16. Areas of consultancy and income generated - **NO**
 17. Faculty recharging strategies – Refresher/Orientation

Refresher Course attended by the Members of the Department.

Name	1 ST R.C	2 nd R.C	3 rd R.C	4 th R.C	5 th R.C
Mrs.S.Mishra	Utkal University 1995	Utkal University 2003	Utkal University dist. 2005	Utkal University 2014	IAS, Bangalore, 2017
Mr.B.B.Panda	Utkal University 1993	Berhampur University 1999	Sambalpur University 2010	Utkal University 2014	
Mr.A.R.Panda		Utkal University 2008	Utkal University 2011		
Mr.A.P.Sarangi	Utkal University 2005	Utkal University 2011	Indian Academy Of Science,Bangalore	IAS, Bangalore, 2017	
Mr.B.Samantasinghar	Utkal University 2004	Utkal University 2011	Utkal University 2014	Utkal University,2017	

Orientation Programme attended by the members of the Department : -

Name	1 ST O.P.	2 nd O.P.	3 rd O.P.	4 th O.P.
Mrs.S.Mishra				
Mr.B.B.Panda	Utkal University 2005			-
Mr.A.R.Panda	Revenshaw college 1997			
Mrs.A.Mahanayak	J.N.U Nov.1997			
Mr.A.P.Sarangi	Revenshaw College 1997			
Mr.B.Samantasinghar				

18. Student projects

- percentage of students who have done in-house projects including inter-departmental
All final Degree students are bound for in house project under guidance of faculty members.
- percentage of students doing projects in collaboration with industries / institutes

19. Awards / recognitions received at the national and international level by

- Faculty
- Doctoral / post doctoralfellows -
- Students -

20. Seminars/ Conferences/Workshops organized and the source of funding (national / international) with details of outstanding participants, if any. –

21. Student profile course-wise:

Name of theCourse (refer question no. 2)	Applications received	Selected		Pass percentage	
		Male	Female	Male	Female
2012-13	960	39	25	100%	100%
2013-14	1151	40	33	100%	100%
2014-15	1204	53	35	-	-
2015-16	1250	48	40	-	-

2016-17	1450	48	40	-	-
2017-18	1485	50	45		
2018-19	1520	51	43		

22. Diversity of Students

Name of the Course (refer question no. 2)	% of students from the college	% of students from the state	% of students from other States	% of students from other countries
U.G	60%	100%	Nil	Nil

23. How many students have cleared Civil Services, Defense Services, NET, SLET, GATE and any other competitive examinations? - SLET – 11, Defence Service – 09

24. Student progression

Student progression	Percentage against enrolled
UG to PG	20%
PG to M.Phil.	
PG to Ph.D.	
Ph.D. to Post-Doctoral	
Employed	
• Campus selection	5%
• Other than campus recruitment	35%
Entrepreneurs	10%

25. Diversity of staff

Percentage of faculty who are graduates	
Of the same parent university	85%
From other universities within the state	15%
From other universities from other states	

26. Number of faculty who were awarded Ph.D., D.Sc. and D.Litt. during the assessment period. – **00**

27. Present details about infrastructural facilities

- Library – Library seminar lib.- No of books – **478**
Gen library or common ref: - **3000**
- Internet facilities for staff and students -**Yes**
- Total number of class rooms - **3**
- Class rooms with ICT facility -**1(Common)**
- Students' laboratories - **04**
- Research laboratories - **NIL**

28. Number of students of the department getting financial assistance from College. – **PBF 10%**

29. Was any need assessment exercise undertaken before the development of new program(s)? If so, give the methodology. - **NA**

30. Does the department obtain feedback from

- faculty on curriculum as well as teaching-learning-evaluation? If yes, how does the department utilize it?
Yes. The Department obtained feedback from faculty on curriculum during board of studies meeting and incorporates the necessary changes in curriculum.
- students on staff, curriculum as well as teaching-learning-evaluation and what is the response of the department to the same?
Students feedback is obtained from drop box duly acknowledged

- c. Alumni and employers on the programmes and what is the response of the department to the same?

Weightage given on alumni & employers feedback on curriculum designing & teaching learning process.

31. List the distinguished alumni of the department (maximum 10)

1. Mr.A.R.Panda. Presently work as lecturer in Physics.
2. Mr.Subhendu Kumar Jena, Scientist, BARC
3. Miss Madhusmita Baral, Scientist, BARC
4. Mr.Jagabandhu Sahoo, Incometax Officer
5. Miss Priyadarshini Swain, Lect. In JKBC College, Cuttack, Ph.D. Scholar, IIT Kharagpur
6. Mr. Pabitra Mohan Pradhan, Lect. In Govt. College, Rayagada, Ph.D. scholar, IIT Kharagpur
7. Mr. Bijaya Kumar Bhatta, Bank of America
8. Miss Nibedita Dash, Ph.D. scholar, IIT BBSR
9. Mr. Saroja Nayak, Ph.D. scholar, IIT Dhanbad
10. Pratidhwoni Swain, Lect. In KSUB College, Bhanja Nagar, Ganjam

32. Give details of student enrichment programmes (special lectures / workshops / seminar) with external experts.

Extra classes are organized for slow learners.

Seminar and project work is taken for 6th sem students.

33. List the teaching methods adopted by the faculty for different programmes.

- a. **Traditional Classroom teaching**
- b. **L.C.D Projector teaching.**
- c. **Practical Demonstration/Teaching.**

34. How does the department ensure that programme objectives are constantly met and learning outcomes monitored?

Departmental meeting is organized once a month to review the programme objectives and learning outcome.

Lesson plan and progress is review in each month end by H.O.D of department.

The time to time academic progress is review by principal in H.O.D's meeting.

Every end semester exam results are analyzed vividly.

Doubt classes are arranged for slow learners.

35. Highlight the participation of students and faculty in extension activities.

Students of the Department join Youth Red Cross, NCC and NSS units of the college as Volunteers and participate in the extension activities like organizing Blood Donation Camp, Swachha Bharat Avhiyan.

Welcome to the new comers and bid farewell to final year students.

Observe college foundation day, Teacher's day & National science day.

36. Give details of "beyond syllabus scholarly activities" of the department.

- In House Seminar, U.G.C sponsored seminar through external resource person.
- Motivating students for research work & guiding them for different entrance test.
- Organizing Quiz, Essay, Debate competition on various topics of science and Zoology in particular
- Active participation by the students in various academic & Co-curricular activities such as publication of wall magazine, celebration of Teachers day, welcome cum orientation programme & farewell ceremony, departmental picnic, Excursion and study tour & arrangement of talks by invited faculties, Observation of Saraswati & Ganesh puja, Christmass, ID etc.

37. State whether the programme/ department is accredited/ graded by other agencies. Give details. -

NO

38. Detail any five Strengths, Weaknesses, Opportunities and Challenges (SWOC) of the department

Strength :

- **Highly qualified and experienced teaching faculty and technical staffs.**
- **Highly disciplined and talented students**
- **Good relation between staff and student.**

Weakness :

- **Restricted autonomy in developing need base curriculum.**
- **Frequent transfer of faculty by the Govt.**
- **Students from rural background with low socio-economy and educational status.**
- **Restricted funds.**

Opportunity :

- **Seminar library**
- **Reading room facility**
- **Internate facility**
- **Supply of handout.**
- **PPT presentation of seminars by the students through LCD projector.**

Challenges :

- **To enhance the interest of students in higher study.**
- **To ensure the facility of research work.**
- **To make smart class room for the department physics**
- **To make multi user internet facility and to enhance strength of study room as well as seminar library.**

39. Future plans of the department. – To undertake PG course and self-finance course.

