PROFORMA OF EVENT

1. Name of the Department-**PHYSICS**
2. Event- **INTER DEPARTMENTAL SEMINAR**
3. Date-**06.01.2017**
4. Title of the topic- "**Special Theory of Relativity and its Application"**
5. Name & Designation of Resource Person:-

Mr. Brahmananda Sethi
Lecturer in Physics (HOD)
Tulasi women's College, Kendrapara

6. **Report**-: Relativity (both the Special and General) theories, quantum mechanics, and thermodynamics are the three major theories on which modern physics is based. The role of relativity appears to be that of specifying the properties of space and time, the arena in which all physical processes take place. It is perhaps a little unfortunate that the word 'relativity' immediately conjures up thoughts about the work of Einstein. The principle of relativity essentially states is the following two postulates: (1) the laws of physics take the same form in all frames of reference moving with constant velocity with respect to one another. The laws of physics are expressed in terms of equations, and the form that these equations take in different reference frames moving with constant velocity with respect to one another can be calculated by use of transformation equations–the so-called Galilean transformation in the case of Newtonian relativity. The principle of relativity then requires that the transformed equations have exactly the same form in all frames of reference. (2) The speed of light in a vacuum is the same for all observers, regardless of their relative motion or of the motion of the light source.

The second postulate states that the speed of light is independent of the motion of its source. Einstein was inspired to make these postulates through his study of the properties of Maxwell's equations and not by the negative results of the Michelson-Morley experiment.

7. **Other remark:** The seminar on the topic "Special Theory of Relativity and its Application" was presided by the senior faculty members Prof. Ranjit Ranjan Sahoo (HOD) Department of Political Science & Prof. Jayashree Behera (HOD) Department of education. The seminar topic was discussed from various angels so that it will be fruitful to UG & PG students. In this inter departmental seminar, students and teacher interaction was very nice. At the end of seminar the vote of thanks was given by first year Hon's student Miss. Swapna Rout. Other staff members of physics department gave their efforts to make the seminar a grand success.

Mr. Brahmananda Sethi
(HOD) of Physics.