

Web based plasma Calculators/Simulators

Abstract

Introduction:

Calculators and Simulators are very popular on websites of famous institutions and organisations that increase the footfall to the website and increase the outreach of the website and activities of the institute. IPR or Outreach website doesn't have any such calculators/simulators related to plasma physics. Plasma Physics is new to the Graduation and Post-Graduation level students also.

Proposed Work:

The project involves the development of basic plasma physics-related calculators/simulators based on plasma formulae and other concepts from plasma physics that can be incorporated on our websites which have access for students and plasma enthusiasts. These can be developed using web based coding like JS or Python as per the expertise of the students. These should be in common coding modules so that incorporation into the existing webpages will be easy.

Academic Project Requirements:

1) Required No. of student(s) for academic project: 3

2) Name of course with branch/discipline: B.E./B.Tech. Computer Engineering/IT/MCA

3) Academic Project duration:

(a) Total academic project duration: 6 Weeks

(b) Student's presence at IPR for academic project work: 3 Full working Days per week

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