

Course Title: Electromagnetics

Course Code: EPHY105L

Total Credit: 3 (2-0-2)

- ✓ Vector operators and coordinate systems
- ✓ Gauss' law and its applications
- ✓ Electric fields in matter and Electric polarization
- ✓ Biot-Savart law
- ✓ Ampere's law and applications
- ✓ Magnetic fields in matter, Magnetization
- ✓ Faraday's law of electromagnetic induction
- ✓ Displacement current and the generalized Ampere's law
- ✓ Maxwell's equations
- ✓ Electromagnetic waves

Text Book: Introduction to Electrodynamics by David. J. Griffiths

Reference Book: Fundamentals of Physics by D. Halliday, R. Resnick, & J. Walker

Evaluation Policy

Mid-term: 15% **End-term: 35%** **Quiz: 30%**

- ❖ Quiz will be held at each lecture from the week starting on November 2, 2020
- ❖ *Type of Quiz:* One question of MCQ type (Maximum time: 5 minutes)



The role of physics in engineering education

The Report of a Committee of the American Institute of Physics

Committee of the American Institute of Physics

American Institute of Physics



PDF

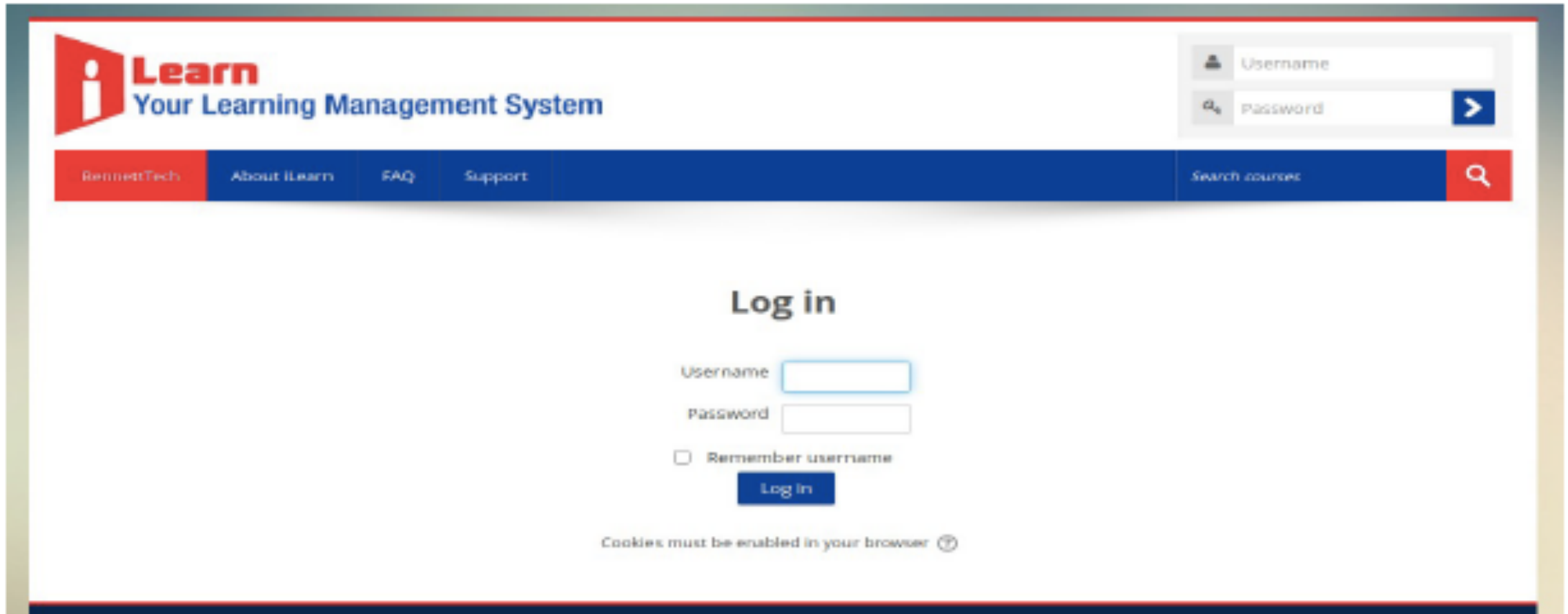
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COMMENTS



Physics Today **8**, 12, 12 (1955); <https://doi.org/10.1063/1.3061847>

<https://lms.bennett.edu.in/login/index.php>



The screenshot shows the login interface of the iLearn Learning Management System. At the top left is the logo with a red 'i' icon and the text 'Learn Your Learning Management System'. To the right is a quick login section with 'Username' and 'Password' input fields and a blue arrow button. Below this is a navigation bar with links: 'BennettTech', 'About iLearn', 'FAQ', 'Support', and a 'Search courses' field with a magnifying glass icon. The main content area is titled 'Log in' and contains a 'Username' input field, a 'Password' input field, a checkbox for 'Remember username', and a blue 'Log in' button. At the bottom, a message states 'Cookies must be enabled in your browser' with a help icon.

- Lecture materials would be uploaded in LMS
- Quiz would be also conducted in LMS