**Module name** | Basic Physics I  
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**Module level, if applicable** | Bachelor  
**Code, if applicable** | MFF-1011  
**Subtitle, if applicable** | -  
**Courses, if applicable** | Basic Physics I  
**Semester(s) in which the module is taught** | 1st (first)  
**Person responsible for the module** | Department of Physics  
**Lecturers** | Team  
**Language** | Bahasa Indonesia  
**Relation to curriculum** | Compulsory course in the first year (1st semester) Bachelor Degree  
**Type of teaching, contact hours** | 150 minutes lectures and 180 minutes structured activities per week.  
**Workload** | Total workload is 136 hours per semester, which consists of 150 minutes lectures per week for 14 weeks, 180 minutes structured activities per week, 180 minutes individual study per week, in total is 16 weeks per semester, including mid exam and final exam.  
**Credit points** | 3  
**Requirements according to the examination regulations** | Students have taken Basic Physics I course (MFF-1011) and have an examination card where the course is stated on.  
**Recommended prerequisites** | No prerequisite is needed  
**Module objectives/intended learning outcomes** | After completing this course the students should be able to:  
CO understand the concept of electricity, magnet, optic, and the theory of quantum in physics.  
**Content** | Measurement and Magnitude of Physics  
Kinematics  
Dynamics I: The Concept of Style  
Dynamics II: Business and Energy, Many Particle Systems  
Dynamics of Stringent I: Torque and Moments of Inertia  
Dynamic Strength II: Equilibrium of Rotation and Translations, Gravity, Fluid, Vibration, Waves  
Temperature, Heat and Law of Thermodynamics I,  
Entropy and the Law of Thermodynamics II  
**Study and examination requirements and forms of examination** | The final mark will be weighted as follows:  
No Assessment methods (components, activities) | Weight (percentage)  
1 | Final Examination | 40%  
2 | Mid-Term Examination | 30%  
3 | Class Activities: Quiz, Homework, etc. | 30%  
The initial cut-off points for grades A, B, C, and D should not be less than 80%, 70%, 50%, and 40%, respectively.  
**Board, LCD Projector, Laptop/Computer**  
## PLO and CO Mapping

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