<table>
<tr><td>Module Name</td><td>:</td><td>Basic Physics 2</td></tr>
<tr><td>Module Level</td><td>:</td><td>-</td></tr>
<tr><td>Code</td><td>:</td><td>02053243005</td></tr>
<tr><td>Subtitle</td><td>:</td><td>-</td></tr>
<tr><td>Courses</td><td>:</td><td>Basic Physics 2</td></tr>
<tr><td>Semester(s) in which the module is taught</td><td>:</td><td>2nd</td></tr>
<tr><td>Module Coordinator</td><td>:</td><td>Drs. Pujayanto, M.Si</td></tr>
<tr><td>Lecturer(s)</td><td>:</td><td>1. Drs. Pujayanto, M.Si
2. Dr. Sarwanto, M.Si
3. Drs. Supurwoko, M.Si</td></tr>
<tr><td>Language</td><td>:</td><td>Bahasa Indonesia and English</td></tr>
<tr><td>Classification within the curriculum</td><td>:</td><td>Compulsory courses (Study Program)</td></tr>
<tr><td rowspan="3">Teaching format/ class hours per week during the semester</td><td rowspan="3">:</td><td>Teaching format : Case Method and Team Based Project</td></tr>
<tr><td>Lecture : 3 x 50 minutes/week = 150 minutes/week</td></tr>
<tr><td>Practicum : 1 x 170 minutes/week = 170 minutes/week</td></tr>
<tr><td rowspan="5">Workload</td><td>:</td><td>16 effective weeks/semester</td></tr>
<tr><td></td><td>Lecture :3 x 50 minutes/week x 16 weeks = 2400 minutes/semester</td></tr>
<tr><td></td><td>Structured assignments : 3 x 60 minutes/week x 16 weeks = 2880 minutes/semester</td></tr>
<tr><td></td><td>Private study : 3 x 60 minutes/week x 16 weeks = 2880 minutes/semester</td></tr>
<tr><td></td><td>Practicum : 1 x 170 minutes/week x 16 = 2720 minutes/semester</td></tr>
<tr><td>Credit points</td><td>:</td><td>4 credit points (sks) = 6 ECTS</td></tr>
<tr><td>Requirements according to the examination regulations</td><td>:</td><td>1. A minimum of 75% attendance to attend an exam
2. Further regulated in the Rector’s Decree No. 31/2020 Article 29 and 30
3. Final score is obtained from the score conversion as follows
<table>
<tr><th>Scale of 100</th><th>Score</th><th>Grade</th></tr>
<tr><td>S ≥ 85</td><td>4</td><td>A</td></tr>
<tr><td>80 ≤ S < 85</td><td>3.7</td><td>A-</td></tr>
</table></td></tr>
</table>

<table>
<tr><td></td><td></td><td>
<table>
<tr><td>75 ≤ S < 80</td><td>3.3</td><td>B+</td></tr>
<tr><td>70 ≤ S < 75</td><td>3</td><td>B</td></tr>
<tr><td>65 ≤ S < 70</td><td>2.7</td><td>C+</td></tr>
<tr><td>60 ≤ S < 65</td><td>2</td><td>C</td></tr>
<tr><td>55 ≤ S < 60</td><td>1</td><td>D</td></tr>
<tr><td>S < 55</td><td>0</td><td>E</td></tr>
</table>
4. Students who have not achieved a minimum passing standard of 2.00 or (C), have the opportunity to improve their grades through remedial teaching given by the lecturer before giving the results of the assessment (yudisium).
</td></tr>
<tr><td>Prerequisites course(s)</td><td>:</td><td>-</td></tr>
<tr><td>Program Learning Outcome(s)</td><td>:</td><td>PLO-1 To mastering physics concepts and a scientific mindset based on natural phenomena that support physics learning in schools and further education
PLO-5 To design, execute, analyze data and evaluate experiments
PLO-11 To work independently and in teams to apply scientific concepts in the community</td></tr>
<tr><td>Targeted Learning Outcome(s)</td><td>:</td><td>CLO-1 To analyze physical processes related to the use of the properties of electricity and magnetism and provide arguments based on the theory of electric and magnetic fields and their interactions</td></tr>
<tr><td>Content</td><td>:</td><td>BK-1 Experimental basis of Coulomb's law, Coulomb's law

BK-2 Static electric field by point particles, static electric field by discrete, continuous, and electric dipole charge distribution, lines of electric force and electric flux, Gauss's law

BK-3 Conductors, insulators, and semiconductors

BK-4 Capacitors, capacitance, and dielectric materials

BK-5 Basics of static magnet experiments, magnetic induction, motion of charged particles in magnetic fields, stationary magnetic field equations, vector potentials, Faraday's law, magnetic dipoles, and the fields they generate,</td></tr>
<tr><td>Assessment and Evaluation</td><td>:</td><td>
<table>
<tr><td>Participatory activity (Case Method)</td><td>50%</td></tr>
<tr><td>Project Product (Team-based project)</td><td>0%</td></tr>
<tr><td>Knowledge</td><td>Tugas : 10%
Quiz : 0
Mid-term Exam : 20%</td></tr>
</table>
</td></tr>
</table>

		<table><tr><td></td><td>Final Term Exam : 20%</td></tr></table> The evaluation of the courses is carried out by the lecturer and the results of the questionnaires are filled in by the students (Reliability, Responsiveness, Assurance, Empathy, Tangible)
Forms of Media	:	Video Conference, LMS, Slide Presentation, Proyektor, Whiteboard
References	:	Serway & Jewett. 2014, Physics for Scientists and Engineers Ninth Edition, Brooks/Cole Bauer, W , et.al, , University Physics with Modern Physics, , McGraw Hill, New York, , 2011 Other relevant sources include national and international scientific journals as learning sources Other relevant sources include national and international scientific journals as learning sources