<table>
<tr><td>Module Name</td><td>:</td><td>Professional Development of Physics Teachers</td></tr>
<tr><td>Module Level</td><td>:</td><td>-</td></tr>
<tr><td>Code</td><td>:</td><td>02173152009/ 02173252009</td></tr>
<tr><td>Subtitle</td><td>:</td><td>-</td></tr>
<tr><td>Courses</td><td>:</td><td>Professional Development of Physics Teachers</td></tr>
<tr><td>Semester(s) in which the module is taught</td><td>:</td><td>5th/ 7th</td></tr>
<tr><td>Module Coordinator</td><td>:</td><td>Dra. Rini Budiharti, M.Pd</td></tr>
<tr><td>Lecturer(s)</td><td>:</td><td>Dr. Sarwanto, 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>Elective courses</td></tr>
<tr><td rowspan="2">Teaching format/ class hours per week during the semester</td><td rowspan="2">:</td><td>Teaching format: Team Based Project, Discussion, and Presentation</td></tr>
<tr><td>Lecture: 2 x 50 minutes/week = 100 minutes/week</td></tr>
<tr><td rowspan="4">Workload</td><td rowspan="4">:</td><td>16 effective weeks/semester</td></tr>
<tr><td>Lecture: 2 x 50 minutes/week x 16 weeks = 1600 minutes/semester</td></tr>
<tr><td>Structured assignments: 2 x 60 minutes/week x 16 weeks = 1920 minutes/semester</td></tr>
<tr><td>Private study: 2 x 60 minutes/week x 16 weeks = 1920 minutes/semester</td></tr>
<tr><td>Credit points</td><td>:</td><td>2 credit points (sks) = 3 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>
<tr><td>75 ≤ S < 80</td><td>3.3</td><td>B+</td></tr>
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<tr><td></td><td></td><td>
<table>
<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).
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<tr><td>Prerequisites course(s)</td><td>:</td><td>-</td></tr>
<tr><td>Program Learning Outcome(s)</td><td>:</td><td>PLO-4 Able to implement theoretical concepts of pedagogy and andragogy for physics learning
PLO-6 Able to utilize and develop various physics learning techniques, strategies, and assessments
PLO-8 Able to develop themself through formal and non-formal education
PLO-11 Able 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 Being able to conduct physics education research in the form of assessment and evaluation of physics learning with quantitative and/or qualitative approaches to solve physics learning problems and reported in the form of scientific articles
CLO-2 Mastering the concepts/principles/theories/laws of physics (physics content knowledge) in-depth, especially on the topics that underlie the study material in the high school physics curriculum</td></tr>
<tr><td>Content</td><td>:</td><td>BK-1 Continuous professional development
BK-2 Writing Scientific Papers
BK-3 Lesson Study</td></tr>
<tr><td>Assessment and Evaluation</td><td>:</td><td>
<table>
<tr><td>Participatory activity (Case Method)</td><td>70%</td></tr>
<tr><td>Project Product (Team-based project)</td><td>0</td></tr>
<tr><td>Knowledge</td><td>Assignment: 0
Quiz: 0
Mid-term Exam: 10%
Final Term Exam: 20%</td></tr>
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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)
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Forms of Media	:	Video Conference, LMS, Slide Presentation, Proyektor, Whiteboard
References	:	Direktorat Ditendik. 2012. Pembinaandan Pengembangan Profesi Guru, Direktorat Ditendik Bill Cerbin.2011. Lesson Study, Stylus Publishing Syaiful Sagala.2009. Kemampuan profesional guru dan tenaga kependidikan, Alfabeta Other relevant sources include national and international scientific journals as learning sources