



PROJECT REPORT  
SCHEDULING COURSES USING PARTICLE  
SWARM OPTIMIZATION ALGORITHM

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Scheduling Courses Using Particle Swarm Optimization Algorithm

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This project report has been approved and ratified by the Dean of Faculty of Computer Science and Supervisor on 18 July 2014

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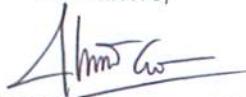
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## **STATEMENT OF ORIGINALITY**

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Certify that this project was made by myself and not copy or plagiarize from other people, except that in writing expressed to the other article. If it is proven that this project was plagiarizes or copy the other, I am ready to accept a sanction.

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## **ABSTRACT**

Scheduling courses might seem an easy job. But, don't take any mistake, Scheduling Courses was very difficult especially at the beginning. It's because there were a lot of lecturers involved and these lecturers had different flurry. The lecturer could teach course on Monday, the other one may only could teach on Friday, or the lecturer only could teach at 9 and above.

Not only that, there were also some requirements to schedule optimization. The lecturer only can taught a lesson once a day, so that lecturer can not tough any lesson in other class or in same class again in that day, Other requirement is the maximum number of credits in the class every day which is 6 credits.

That's the reason why the application were made. So that those who made schedule courses could make schedule more easy and faster. This scheduling courses is using Particle Swarm Optimization Algorithm to give suggestions about the schedule that will be made. That makes the schedule optimization are not required to being used for scheduling.

**Keyword : php programming, Scheduling Courses, timetable scheduling, particle swarm optimization algorithm**

## **FOREWORD**

Thanks God whose are always giving me guidance, so that I could finish this project report titled “Scheduling Courses Using Particle Swarm Algorithm”. I would also like to express my sincere gratitude and thanks to many people who had given their worthy time and ideas to support me in completing this report:

- Tjen Lien Yoeng, Etlien Susanti, and Chendera Paulin Diana who gave me support and spirit.
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Semarang, July 18<sup>th</sup> 2014

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