

# Roboat UGM Wins National Unmanned Speedboat Contest 2016

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The Roboat team from Universitas Gadjah Mada (UGM) has won the *National Unmanned Speedboat Contest* (KKCTBN) that is held at the Politeknik Perkapalan Negeri Surabaya (PPNS) from 28 November-1 December 2016. In the event UGM became the first winner in the electric remote control category and third winner in the autonomous category.

KKCTBN is a competition for students that is held by the Ministry for Research, Technology, and Higher Learning to develop student's creativity in making ship designs, planning generating systems and navigational automation to support manouvre capacities in disaster mitigation. Up to 32 teams from Indonesian universities, such as ITS, UGM, Universitas Telkom, PPNS, Universitas Diponegoro, and Institut Teknologi Nasional Malang participated here.

Roboat UGM chairperson, Levina Ariesta, said UGM dispatched three ships: Gamanave, Safina One, and Jayamahe. Gama Nave is the winner in the electric remote control category while Safina One autonomous category.

The Gamanave ship passed the mission and challenge in the tracks without hitting barriers under

the fastest time.

“During the test drag, Gamanave makes 9.59 seconds and manouvre 37 seconds, or the fastest among their competitors,” she said when contacted on Friday (2/12).

The Safina One finished the assigned track mission without using a remote control. Safina One is designed and built on an automatic electronic software or colour sensor to detect barriers with one camera on the frontside of the ship.

“The ship has to finish the track without hitting a coloured ball not using a remote control. So, this is more on the programming challenge,” she explained.

The Roboat UGM consists of 16 students from Engineering Faculty, Mathematics and Natural Sciences Faculty as well as Vocational School. Head of Student Creativity Sub-directorate, Ahmad Agus Setiawan, S.T., M.Sc., Ph.D., separately said the Roboat and other student teams had been prepared since the start of the year. No less than 600 medals have been won by UGM until end of 2016, which represents the potential of UGM students for various competitions.

“This result also affirms that UGM students are very competitive for real challenges in the global community,” he said.

Agus added that UGM implemented sustainable development paradigm for its approach to students. They are trained not only to win a competition but also to regenerate next champions. Currently, up to 20 communities have been established to apply the concept.

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