









## GOLD AWARD

#	Code	Title	Affiliation	Sub-theme	Medal
<b>Category: International (F)</b>					
1	F10	Formulation of mosquito repellent gel from Citronella oil	Universitas Negeri Semarang	Biotechnology, Health and Chemicals (BHC)	
2	F05	Mathematics Adventure Park: a real, virtual, and extended reality math trails environment to foster 21st-century skills	Universitas Negeri Semarang	Education (EDU)	
3	F08	The Strategic Policy of the UNNES Physics Study Program to Yield Graduates with shorted Study Period and Expertise in 21st Century Skills and Competencies	Universitas Negeri Semarang	Education (EDU)	
4	F07	Digital Radiography Converter as a Solution for Efficiency, Ease and Speed of Service in the Field of Radiodiagnostic	Universitas Negeri Semarang	Manufacturing Process, Machines and Equipment (MPE)	
5	F02	Innovation Of In Vitro Conservation Culture Of District Identity Plant In Central Java Province Indonesia To Increase Community Participation In Conservation Effort	Universitas Negeri Semarang	Biotechnology, Health and Chemicals (BHC)	






NATIONAL INNOVATION & INVENTION COMPETITION 2022



#	Code	Title	Affiliation	Sub-theme	Medal
<b>Category: International (F)</b>					
6	F01	Digital Image Processing	Universitas Islam Malang	ICT, Multimedia and Telecommunications , Electrical and Electronic (IME)	
7	F04	Implementation of SQL Query Construction to Improve Database Concept Understanding With Close-Ended Approach	Politeknik Negeri Malang	Education (EDU)	
8	F12	STEM Education with Low-Cost Educational Robotics Platform	Universitas Negeri Semarang	Education (EDU)	

## SILVER AWARD

#	Code	Title	Affiliation	Sub-theme	Medal
<b>Category: INTERNATIONAL (F)</b>					
1	F06	Potential Application of Corn-Based Industrial Wastes to Bioethanol Gel as an Alternative Energy Source	Universitas Negeri Semarang	Agriculture, Environmental and Renewable Energy (ARE)	
2	F09	Investigating log of Viat-Map Application to Understanding Student Thinking	Politeknik Negeri Malang	Education (EDU)	
3	F15	Floating Market Development Established From Local Wisdom to Uplift Sustainable Economy in Bontang Post Pandemic	Universitas Negeri Malang	Building, Construction and Materials (BCM)	
4	F13	A study of the turpentine oil addition on the droplet combustion characteristics of the crude sunflower oil as biodiesel	Universitas Islam Malang	Agriculture, Environmental and Renewable Energy (ARE)	